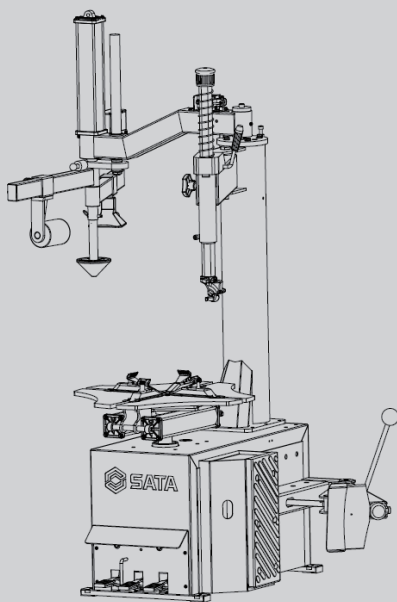




摆臂式单辅助臂轮胎拆装机
Swing-arm Tire Changer With Heyzer

AE1024H/AE1024H-3



使用说明书 \ User's Manual



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技术参数	外夹轮辋直径	内撑轮辋直径	适用最大轮辋宽度	适用最大轮胎直径	气缸最大推拉力
AE1024H	10-21"	12-24"	330mm	1010mm	2500 kgf
AE1024H-3					
技术参数	大盘转速	工作气压	工作噪音	外箱尺寸	毛净重
AE1024H	6 rpm	8-10 bar	≤ 70 db	1150*950*1020mm	304Kg/279 Kg
AE1024H-3					

开箱后即请检查产品，确保产品完好无损。如果发现有任何部件缺失或损坏；

请电话联系世达汽车科技（上海）有限公司客户服务部：400-820-3885、800-820-3885。

请记录产品序列号：_____

注：如果产品没有序列号，请记录购买日期。

请妥善保管本使用说明书：

- 1) 本使用说明书涉及产品的安全警告、安装操作、维护保养、常见故障处理等内容，请妥善保管。
- 2) 请记录本产品的序列号（或购买日期）在使用说明书首页，并将说明书保存于干燥安全之处以备参阅。
- 3) 请在完全理解本说明书内容的基础上，正确使用产品。
- 4) 本产品已经投保产品责任险。



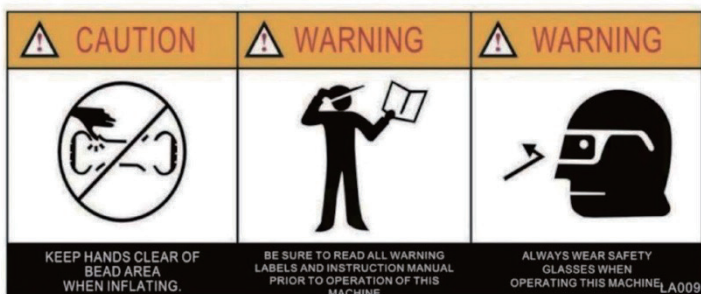
第一章 安全注意事项

- 不正确的操作可能导致人身伤害及设备损坏。
- 使用前请务必仔细阅读并理解说明书的全部内容。
- 请保证儿童与其他未经许可的人员远离工作区域。
- 确保设备连接到正确的电源和气源，并可可靠接地。
- 请在平整、水平、干燥并能可靠承载的平面上使用本设备。
- 避免意外启动，在维修之前请确保设备已关闭，电气源断开。
- 将保护装置和安全装置保持在正确的位置，并保持正常工作。
- 保持工作区域清洁和良好的照明，混乱或黑暗区域会引发事故
- 严禁超载使用本产品，否则引起的事故责任不在保险范围之列。
- 请保持远离热源与火源，高温可能对本设备和密封元件造成损坏。
- 避免危险的环境，不要在潮湿的环境使用设备，或将其暴露在雨中。
- 严禁任何未经培训的人员使用本设备，且不得自行拆装或改装本设备。
- 确保车轮正确安装，按不同轮毂选择正确的方式将其锁紧固定在本设备上。
- 每次使用前都要仔细检查，如有漏油、零部件、附件松动或者损坏，都不能使用。
- 请让具有专业维修资质的专业人员合理维护设备，如需更换配件请使用原厂配件。
- 在操作时必须穿戴符合国家相关安全防护安全规定的安全鞋、防护眼镜和工作手套，推荐选用世达相关产品。
- 严禁在酒后、精神乏力、注意力不集中，受药物影响而困倦以及任何意识不清醒的情况下使用设备。

警告

本手册中所包含的注意、警告、指示等信息不能涵盖所有可能发生的情况。操作人员必须明白日常谨慎操作和具备专业知识是在操作本产品时不可或缺的因素。

1.1 警告标贴



操作中手要
远离轮胎

操作时须佩戴
好防护用品

使用前请仔细
阅读说明书



小心触电!



注意：压胎时请勿用手接触轮胎侧壁



切勿将身体任何部位探入拆装头下方



夹紧轮辋时，请注意手和其他部位勿进入卡爪与轮辋间



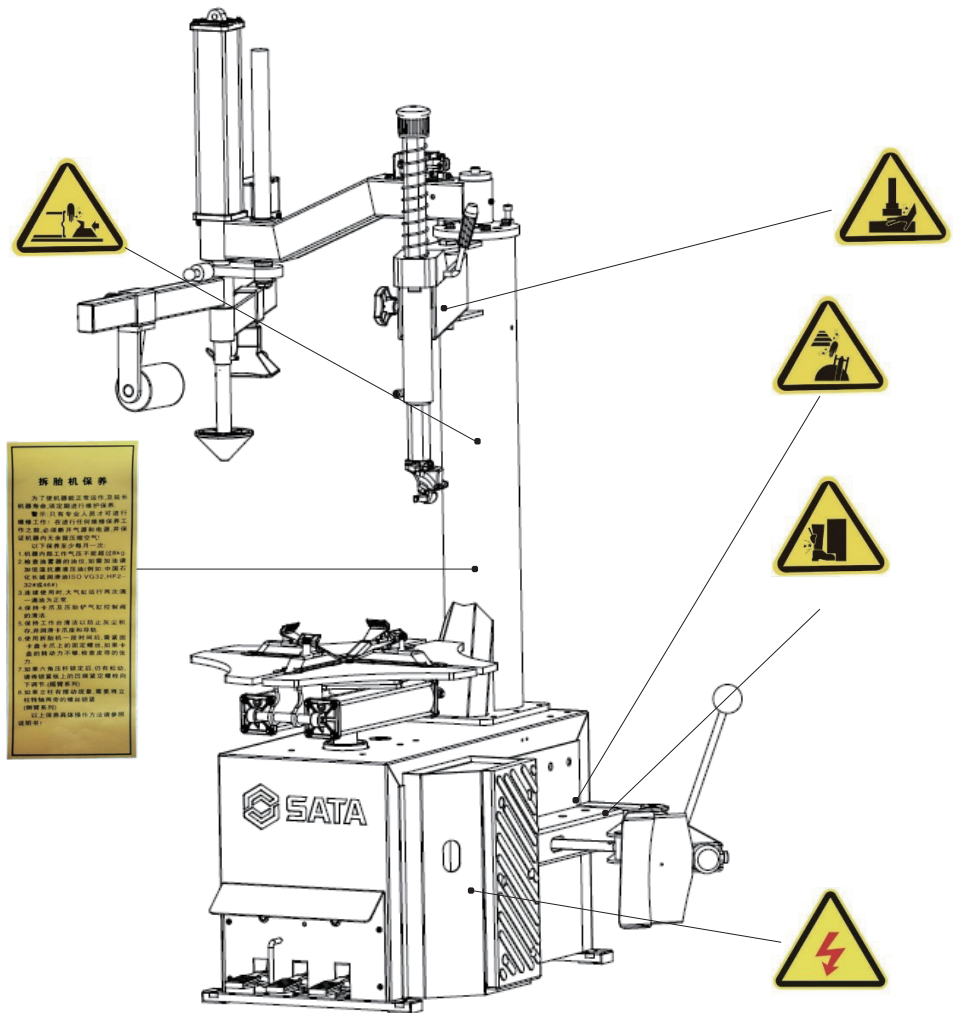
压胎时，请勿站立于铲刀和轮胎中间，以免受伤



小心立柱后仰伤人

1.2 安全标识位置示意图

- 注意保持安全标识的完整，模糊或丢失时，应立即更换新标识应使操作者清楚看见安全标识并须明确标识正确含义

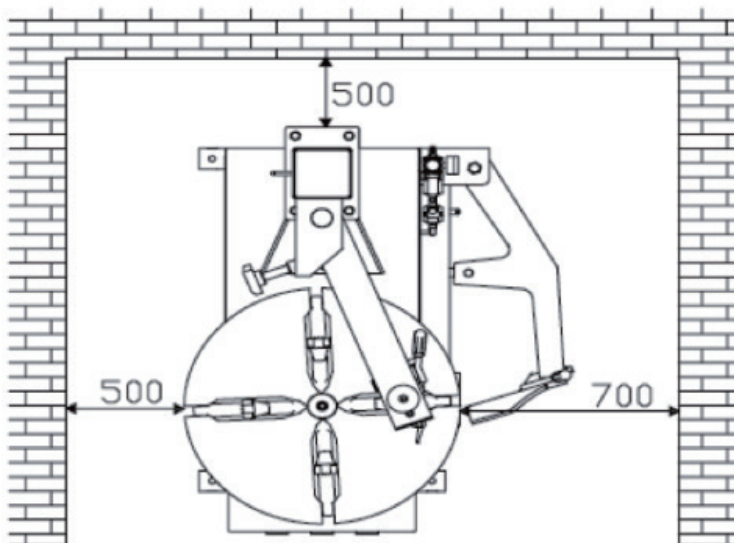


第二章 安装说明

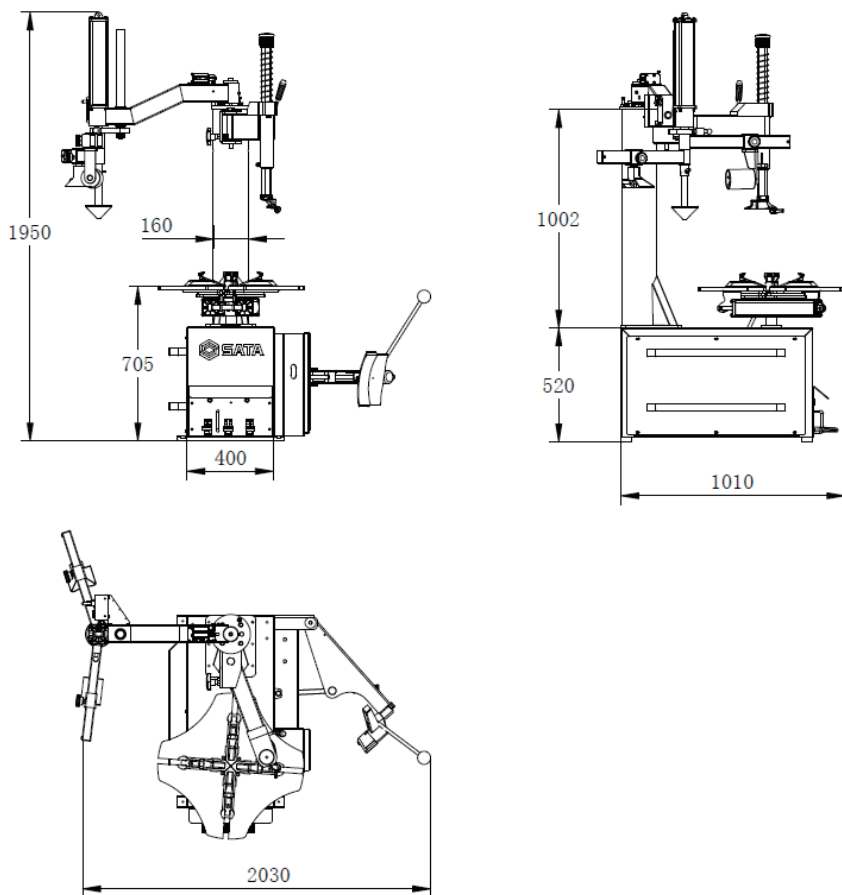
拆胎机的安装必须由专业人员完成。安全和有效的使用取决于正确的安装。如果有问题请联系世达授权的经销商。

2.1 设备尺寸和使用空间

- 拆胎机必须放置在坚固的平面地板上，并使用螺栓固定。
- 安装拆胎机的位置，附近必须有电源和气源，一起连接。
- 适合放置拆胎机的位置，须在拆胎机周围留有足够的操作空间。
- 确保所选的位置上面和后面有足够的空间让辅助臂或倒臂正常工作
- 拆胎机右侧和正面至少留 500mm 的操作空间，以便拆装轮胎以及压胎工作。



AE1024H/AE1024H-3 尺寸图:

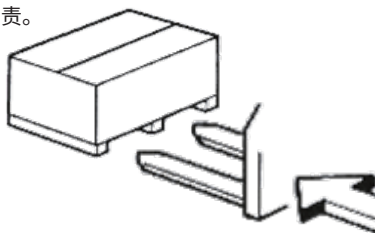


2.2 安全规则

- 本设备应由专业人员或经培训过的人员操作。
- 未经许可对设备（尤其是电气部分）进行动，本公司概不负责。
- 任何对电气部分的处理，只能由专业人员进行。

2.3 运输 / 拆箱

- 叉车搬运，搬动位置如右图所示。
- 拆去包装，检查设备是否受损。
- 将包装材料远离儿童放置，以免造成危险。

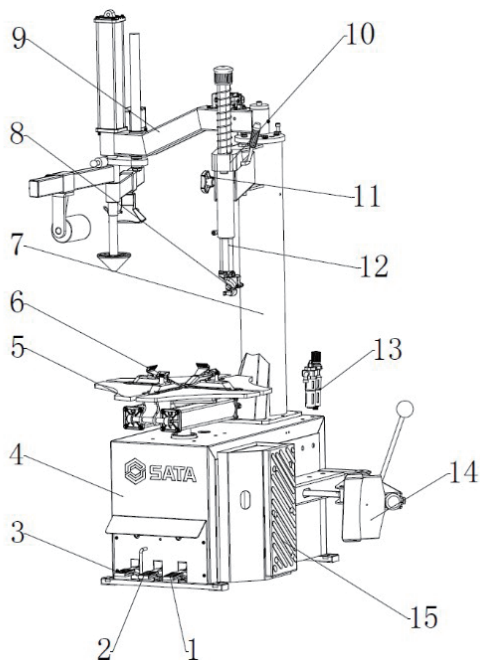


注意


设备表面都涂有一层特殊的防锈油，易沾上灰尘，必要时应尽量擦除。

2.4 产品图

- 1 压胎脚踏
- 2 夹紧脚踏
- 3 转动脚踏
- 4 箱体
- 5 工作台
- 6 卡爪
- 7 立柱
- 8 拆装头
- 9 辅助臂总成
- 10 摆臂
- 11 锁紧把手
- 12 六角压杆
- 13 油雾器
- 14 压胎铲臂
- 15 压胎胶垫

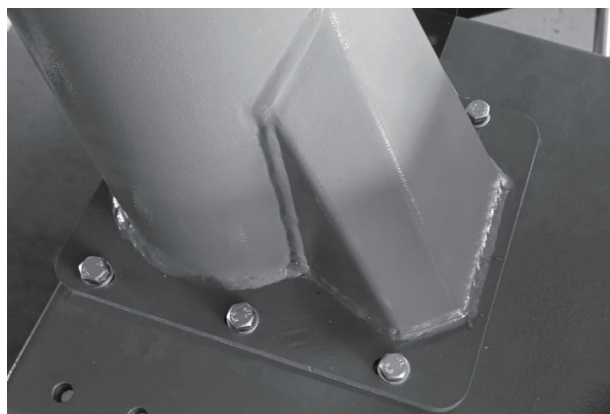


2.5 标准配件:

			
打气表	六角杆压簧帽	六角杆压簧	20 寸撬棍
			
拆装头填充垫 - 前 / 后	撬棍护套	立柱挂钩	说明书

2.6 立柱安装

将机箱上立柱安装位置的螺栓卸下，将立柱总成置于机箱上，警示标贴方向向前，使立柱底板各孔与箱体各螺孔对齐，重新用螺栓紧固。



2.7 六方杆压簧安装

- 用六角扳手取下六方杆压杆帽上的螺钉，当拆卸压杆帽的螺钉时，须将六方杆轴用锁紧手把锁紧，防止落下损坏设备或人身伤害事故
- 将压杆长弹簧穿入压杆中，重新安装压杆帽并紧固



2.7 电源连接

通电前应先检查网路电压是否与设备标签上所标的电压值一致

非常重要：设备与电气系统相连接，该电气系统要配有线路保险，良好的接地要符合当地国家标准，必要时给设备配备漏电保护装置，以确保设备的安全运行。

2.8 气源连接

- 1) 将夹紧脚踏踩下，确定大盘卡爪不会突然张开。
- 2) 用快速接头将气源连接至油水分离器。并调节压力表显示气压。
- 3) 将打气表用管线连接至气源，并按压手柄确认充气功能正常。

2.9 整机测试

- 踩下转动踏脚，大盘按顺时针方向转动。顶起踏脚，大盘按逆时针方向转动。
 - 踩下夹紧踏脚，四个大盘卡爪张开，再次踩踏脚，卡爪闭合。
 - 踩下压胎夹紧踏脚，靠胎铲进入工作状态，再次踩踏脚，靠胎铲返回原始位置。
 - 检查是否是每踩下踏脚 3-4 次之后，油水分离器油滴 1 滴，如果不是的话，使用螺丝来进行调节。
- 说明：对于 380V 的设备型号，如果大盘的转动方向同上述的方向不同的话，则调换 3 相接 线柱上的两根相线

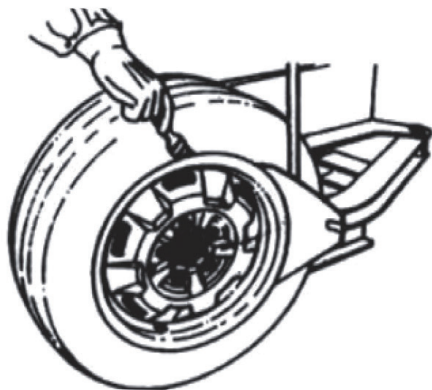
第三章 操作指南

3.1 在您阅读和理解整个手册和所提供的警告之后才能使用机器。在进行操作之前，放掉胎中的空气，并除去轮上的所有的铅块。轮胎拆装机的操作包括以下部分：a、靠胎；b、拆胎；c、装胎

3.2 建议拆胎机配压力调节装置。

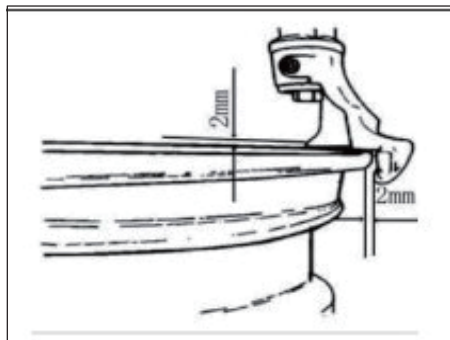
3.3 靠胎

- 在操作之前要确保原有的所有的铅块被卸下，拔去气门芯，并检查轮胎的放气。
- 将轮胎置于压胎铲和压胎胶垫之间，然后踩压胎踏板使胎唇与轮辋分离。在轮胎其它部位重复以上操作，使两侧胎唇彻底与轮辋脱离。把胎唇与轮辋分离的车轮放在转盘上，踩撑夹 脚踏夹紧轮辋（可根据轮辋选择内撑或外夹），准备拆胎

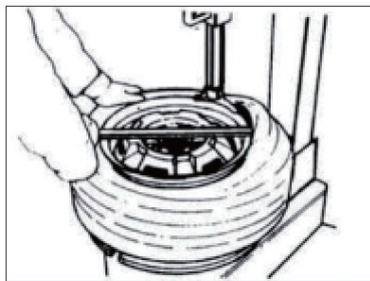
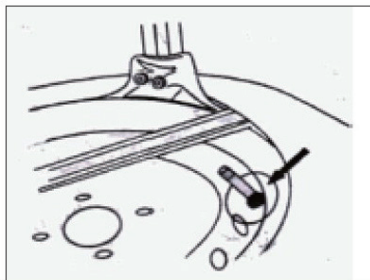


3.4 拆胎

- 将提供的润滑脂（或类似的润滑脂）涂抹在胎口上，不使用润滑脂将会导致对胎口的严重的损坏
- 在锁定轮辋的过程中，千万不要将您的手放在轮胎的下面。正确的固定操作使轮胎恰恰位于大盘的中央，确保轮辋被牢牢的固定在夹爪上



- 为避免损坏内胎，需使气门芯位置位于拆胎头右侧，宽松的衣物或移动部件附近的异物均会危及操作者
- 用撬棍将胎唇撬到拆装头头部的凸起部位上，点踩转盘转向脚踏转盘顺时针旋转，直到上胎唇全部拆出。如果拆有内胎的轮胎，为了避免损坏内胎，在进行操作时，应使气门离开拆胎头右边 10cm 左右；
- 如果拆胎受阻，应立即停车，上抬脚踏，让转盘逆时针转动，消除障碍！



3.7 安装轮胎

- 最重要的是检查轮胎和轮辋，防止再充气过程中的爆炸。在开始安装操作之前要确保：轮胎和胎纹纤维没有受到损坏，如发现，不要安装轮胎；轮辋没有凹痕和翘曲肉眼观察，注意铝合金轮辋的内侧没有微小的划痕，这些是危险的，尤其是在充气的时候
- 使用专用的润滑脂进行胎口的润滑，以避免损坏胎口和便于操作在轮辋锁定的时候，不要将手放在轮胎的下面。正确的操作是使轮胎位于大盘的中央立柱倾斜的过程中要确保没有人站在立柱的后面
- 如果所拆装的轮辋的尺寸相同的话，就没有必要经常地锁紧拆胎臂或解除拆胎臂的锁紧，您所需要做的仅仅是将立柱后仰或恢复到工作的位置，拆胎臂保持在工作的位置
- 千万不要将您的手放在车轮的上面。立柱回位到工作位置会对操作者的手造成挤压，使其夹在轮胎和轮辋之间

- 移动轮胎使胎口在鸟头前端下方经过，胎口翘起的部分顶在鸟头后部用手将胎口按进轮辋的槽内。踩踏脚使得大盘按照顺时针旋转。持续此操作，直至轮胎完全装入轮辋。
- 为防止工业事故，在大盘转动的时候使手和身体的其他部分尽可能的远离拆胎臂放入内胎，重复上述的操作
- 拆装轮胎的时候，大盘要按照顺时针的方向转动。逆时针的转动仅在机器熄火导致操作者发生错误的时候为了纠错而使用

3.8 充气

- 在轮胎充气的时候要极度的小心，严格的按照下面的说明执行，因为拆胎机的设计的制造对于突然的爆胎不予以周围的人保护
- 爆胎会导致操作者的严重的伤害或甚至导致死亡。仔细检查轮辋和轮胎的尺寸要相同。在充气之前要检查轮胎没有毛病或磨损。每次喷气之后都要检查压力。无论如何不要超出制造厂家建议的压力值使您的身体和手尽可能远离轮胎。
- 使用充气表进行轮胎的充气在标准的版本下，我们的拆胎机配有充气表。充气程序如下：

- 1) 将充气表和轮胎气阀相连接
- 2) 最后检查一下轮胎和轮辋的尺寸的配合
- 3) 检查胎口是否被充分润滑，如果有必要的话，进行更深一步的润滑
- 4) 充气，检查充气表的气压
- 5) 继续充气，边充气便检查气压



爆炸的危险!

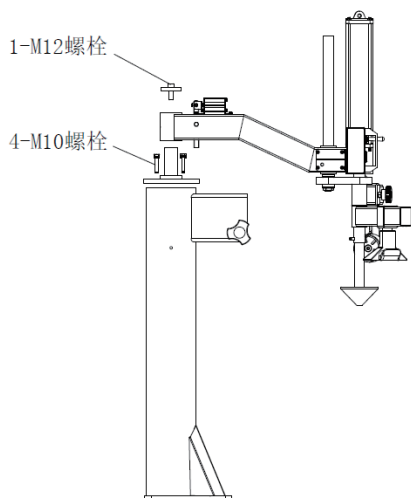
- 轮胎充气的时候不要超过 3.5bar (51psi)；充气前轮胎从大盘上卸下。千万不要超过制造厂家建议的充气压力，手和身体位于正在充气的轮胎的 后侧；仅由受过专门训练的授权的人员进行充气的操作，其他的人不得操作或呆在拆胎机的附近。
- 在此过程中，噪音能达到 85 分贝。建议使用噪音保护

第四章 辅助臂的安装与操作

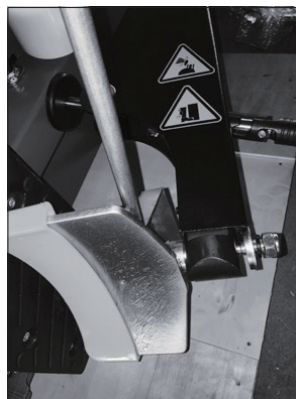
4.1 断开拆胎机的电、气源。将辅助臂置于拆胎机的立柱顶上，用螺栓紧固。将对应气管按相应连接好。

4.2 操作说明

控制手柄用于控制压胎块与压胎轮的上升和下降，以适应装拆轮胎的高度。



4.5 压胎铲安装



1. 取出压胎铲，卸下压胎铲轴上的垫片与锁紧螺母
2. 将压胎铲轴穿入铲臂转轴中
3. 装上垫片与锁紧螺母，用扳手锁紧

第五章 存储

当设备需长时间贮存时，请断开电源和气源。润滑所有需润滑的部件：滑块、大盘上的滑块槽，辅助臂安装处。排空所有的油 / 液体存贮器。将设备套上塑料罩以防尘。

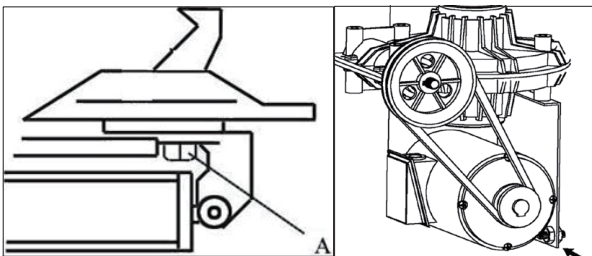
第六章 报废

当设备寿命已尽，不能再使用时，请按照当地有关法规妥善处理。

第七章 日常保养

为了延长机器使用寿命，应按说明书要求进行定期维护保养。否则，机器的运行可靠性将受影响，致使操作者和机器附近人员可能受到伤害。警示：在进行任何维修保养工作之前，必须断开气源和电源，并且踩 3-4 下踏板排完机器内的余留压缩空气。损坏部件必须由专业维修人员用原厂提供的备件更换。

- 1) 保持卡爪及压胎铲气缸控制阀的清洁。
- 2) 使用机器 20 天后，重新紧固卡盘卡爪上的固定螺钉 (A)。
- 3) 如果爪盘的转动动力不够，按以下检查皮带的张力。松开机身左侧侧板的螺钉，拆下侧板，调整安装电动机的两颗调节螺钉，使调节支架和电机座的距离合适，然后紧固螺钉，以达到张紧驱动皮带的作用。
- 4) 为了卡爪及压胎铲大气缸的开 / 合可靠，应保持与其相连的控制阀的清洁，可按以下说明进行维护。卸除机身左侧板的 4 颗螺钉，拆下侧板；松开卡爪开 / 合或大气缸控制踏板上的阀体消声器。
- 5) 用压缩空气清洁消声器上的污物，若已损坏，参见备件表更换。



- 6) 气压不超过 10Ba。
- 7) 保持工作台清洁以防止灰尘积存，并润滑卡爪座和导轨。
- 8) 如果摆臂没有锁定或没有达到工作所需的尺寸，需要对摆臂锁紧板进行调节。
- 9) 如果立柱有摆动现象，需要将立柱转轴两旁的螺丝锁紧。
- 10) 检查油雾器油缸的油位，如需加油，用内六角扳手松开螺钉，或逆时针拧开油缸进行加油，只能使用牌号 VG32 润滑油，在接上压缩空气的情况下，第一次踩 1 下踏板，看油雾器是否滴第一滴油，连续使用时，踩一下踏板，看油雾器是否滴一滴油。



拔出盖子，旋转可调节压力，压力设定范围为8-10Bar



压下盖子，锁定压力



定时检查汽水分离器水位高度，请勿超过分离器50%高度，必要时可转动锁紧钮，人工排水。



每天检查润滑油液位，需要时可打开油盖添加。注意，禁止使用长期暴露于空气中的润滑油。



每天检查润滑状况，确保踩压脚踏时润滑油滴入油雾器中。必要时可使用螺丝刀调整油雾器调节螺丝。

第八章 故障以及排除

8.1 工作盘不动

检修思路：首先分清是电路故障还是机械故障。

检修方法：

- 踩下或提起倒顺开关脚踏，观察电机的反应，如果没有任何反应，用万用表测量倒顺开关，接线端之间电压是否正常，不正常检查供电线路或电源插头，若电压正常，用万用表测量倒顺开关接线端和接线端在踩下和提起电源开关脚踏时，电压是否正常，如果不正常，倒顺开关坏，如果正常，电机或电容坏。
- 如果电机有嗡嗡声，但不能转，测量方法同上面。如果测量结果不正常，倒顺开关坏，如果正常，用手转动变速箱带轮，如果用手转不动，变速箱有故障，如果用手能转动，是电机或电容故障。
- 如果电机能正常转动，工作圆盘不转动，应是变速箱故障，如：变速箱皮带轮没带动蜗杆旋转：蜗轮崩出等。

8.2 拆胎无力

检修方法：拆胎时观察电机的工作情况，如果拆胎时，不能转动，说明电机力矩太小或电容有故障，如果电机能转动，但皮带轮在打滑说明是皮带过松所致，只需调紧皮带即可。

8.3 卡爪卡不死钢圈

检修方法：检查供气气压是否符合说明书的要求，如果符合要求，检查漏气或窜气，如果没有漏气和窜气和窜气现象就是卡爪同心高不好。

8.4 大气缸不能压胎

检修思路：如果是压胎无力（包括空载时大气缸能活动，压胎时压不松），一般是气压低，漏气，大气缸窜气，如果空载大气缸不能活动，一般是压缩空气没有加在大气缸的压胎端。

- 检查供气气压是否符合说明书的要求，如果符合要求检查大气缸是否漏气，检查控制大气缸两端的气管，接通气源，五通阀上的两根气管中的一根应该有气出来，当踩下压胎脚踏时，另一根气管应该有气出来，如果不正常，应换五通阀或调整五通阀的安装位置，使之工作正常。
- 检查五通阀正常的话，把复位端的气管接上，在压胎工作端的接咀上没有气出来为正常，如果有气出来，说明大气缸活塞裂或是密封圈磨损。
- 检查气压：用气压表检查油雾器的进气端的气压是否符合说明书的要求，如果进气端气压不够，调大空压机供气，如果进气端气压符合要求，出气端气压不够，调节油雾器的调压旋钮，如果调节调压旋钮不起作用，更换油雾器。

8.5 拆胎头刮钢圈吃胎

- 六方柱销锁不紧
- 拆胎头螺丝松动或方向位置不对
- 六方柱与六方套间隙大检修方法：
 - 拆胎头螺丝松动的调整：先预装紧（不要太紧）螺丝，再装紧螺丝，在装紧螺丝的时候，应装上一个中等尺寸的轮胎，让拆胎头滚轮靠在钢圈上，转动拆胎头的方向使之与钢圈的弧度相吻合，再紧固，最后把拧紧。
- 如果用手扳动六方柱，摆动比较大的话，更换摇臂。

8.6 卡爪张不开或收不拢:

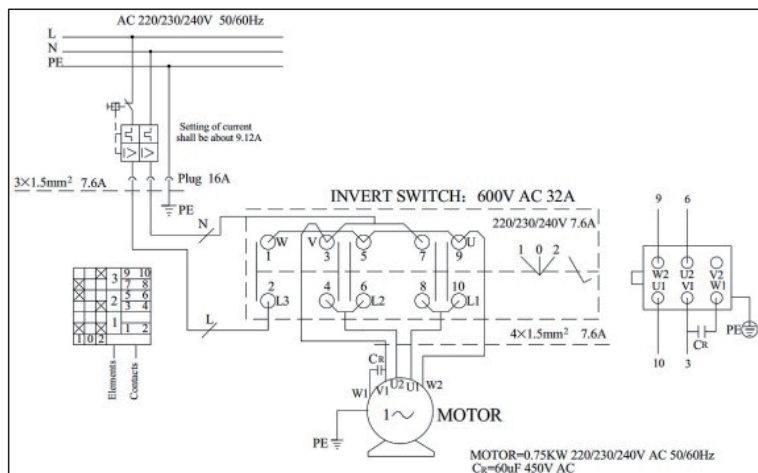
检查不无漏气, 检进五通阀芯是否跳出脚踏拨叉外, 若以上正常, 检查旋转配报导阀不无窜气, 拆下旋转配报导阀连到小气缸的气管, 在脚踏没有踩下或者说完全踩下时, 旋转配气阀连到小气缸的气管只有其中一根有气出来, 任何情况下两根气管不同时出气的现象就是旋转配气阀窜气, 如果以上部件都没问题, 检查扒机械部分, 卡爪座有无变形, 卡死, 方形转盘有无卡死, 方形转盘有无卡死, 方形转盘销有无脱落。

8.7 一般常见的故障排除法

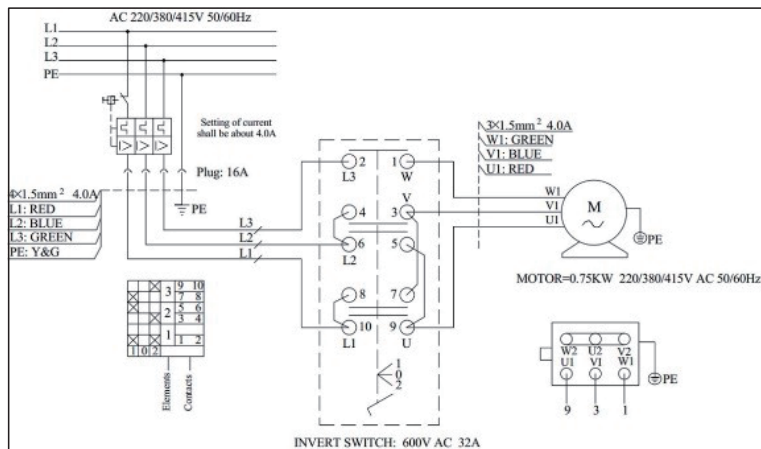
故障现象	故障原因	排除方法
拆装头刮轮辋 / 吃胎	立柱松动导致拆装头位移	锁紧立柱
	摇臂 / 滑臂松动导致拆装头位移	调整摇臂 / 滑臂间隙
	六方杆间隙大导致拆装头位移	调整六方杆间隙
	拆装头松动	锁紧拆装头
	拆装头塑料垫片脱落	安装塑料垫片
	拆装头与轮辋间隙过小	调整拆装头与轮辋间隙 2-4mm
卡爪夹不紧轮辋	夹紧气缸漏气 / 窜气	检查气管接头 / 更换密封圈
	旋转配气阀漏气 / 窜气	检查气管接头 / 更换密封圈
	五通位置不对 / 漏气 / 窜气	调节五通阀位置 / 更换 O 型密封圈
	油雾器气压过小	调节油雾器压力 / 检查气源压力
	四个卡爪不同心 / 损坏	调整卡爪距离和偏心轴瓦 / 更换卡爪
大气缸无力	大气缸漏气 / 窜气	检查气管接头 / 更换密封圈
	五通位置不对 / 漏气 / 窜气	调节五通阀位置 / 更换 O 型密封圈
	油雾器气压过小	调节油雾器压力 / 检查气源压力
	气缸进气慢	调节五通阀脚踏限位螺丝
电机无力	220V 电机启动电容损坏	更换电容
	380V 电源缺相	检查电源相位
	皮带松	调紧皮带
电机不转	220V 电机启动电容损坏	更换电容
	380V 电源缺相	检查电源相位
	开关损坏或接线错误	检查开关接线 / 更换开关
	没有电源或插头没接触好	检查电源 / 更换插头
六方杆锁不紧	锁紧板间隙大	调整锁紧板间隙

故障现象	故障原因	排除方法
滑臂间隙大	上下滚轮轴承和侧边顶丝位置不对	调整位置
气缸窜气	活塞密封圈损坏 / 气管接头损坏	更换
气缸漏气	O 型密封圈损坏 / 活塞杆刮伤 / 气管接头损坏	更换
五通阀漏气	O 型密封圈损坏 / 气管接头损坏	更换
五通阀窜气	O 型密封圈损坏	更换
油雾器漏气	型密封圈损坏 / 有异物 / 气管接头损坏	更换 / 清理异物
油雾器不滴油	调节滴油量太少 / 无油	加大滴油量 / 加油
旋转配气阀漏气	O 型密封圈损坏 / 气管接头损坏	更换
旋转配气阀窜气	O 型密封圈损坏	更换
卡爪张开收不拢 / 抖动	有异物 / 无润滑油 / 卡爪座变形	清理异物 / 加油润滑 / 更换
皮带容易损坏	皮带过紧 / 皮带轮与皮带盘不水平 / 过度使用	调整位置与水平 / 更换
开关正反转相反	接错线	重新连接 / 更换
减速箱噪音大	螺丝松动 / 无润滑油 / 轴承损坏	锁紧螺丝 / 加油润滑 / 更换

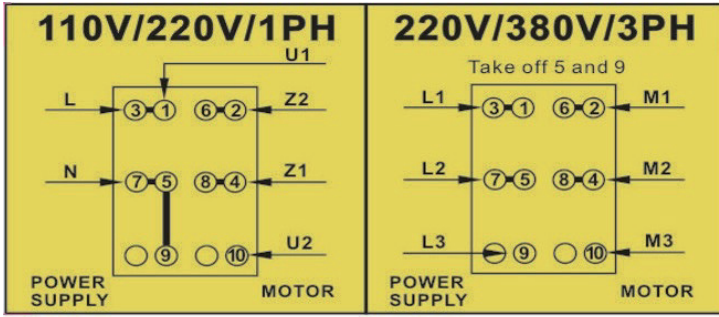
第九章 电路和气路图



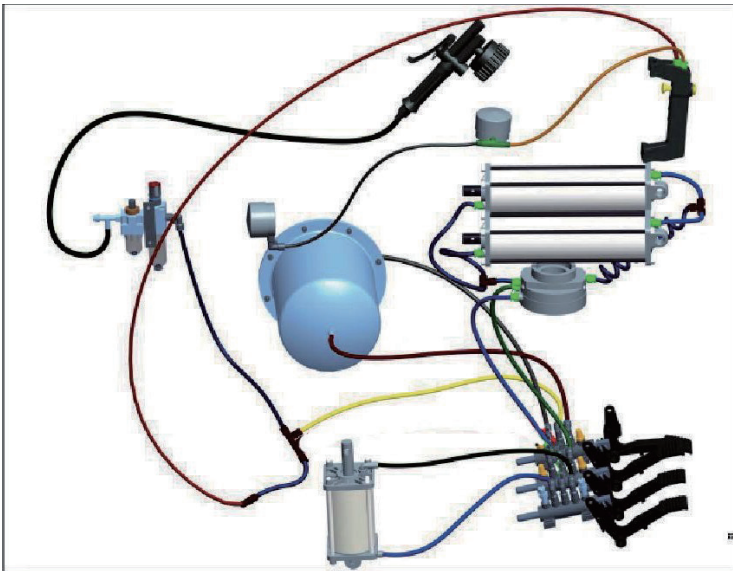
220V



380V

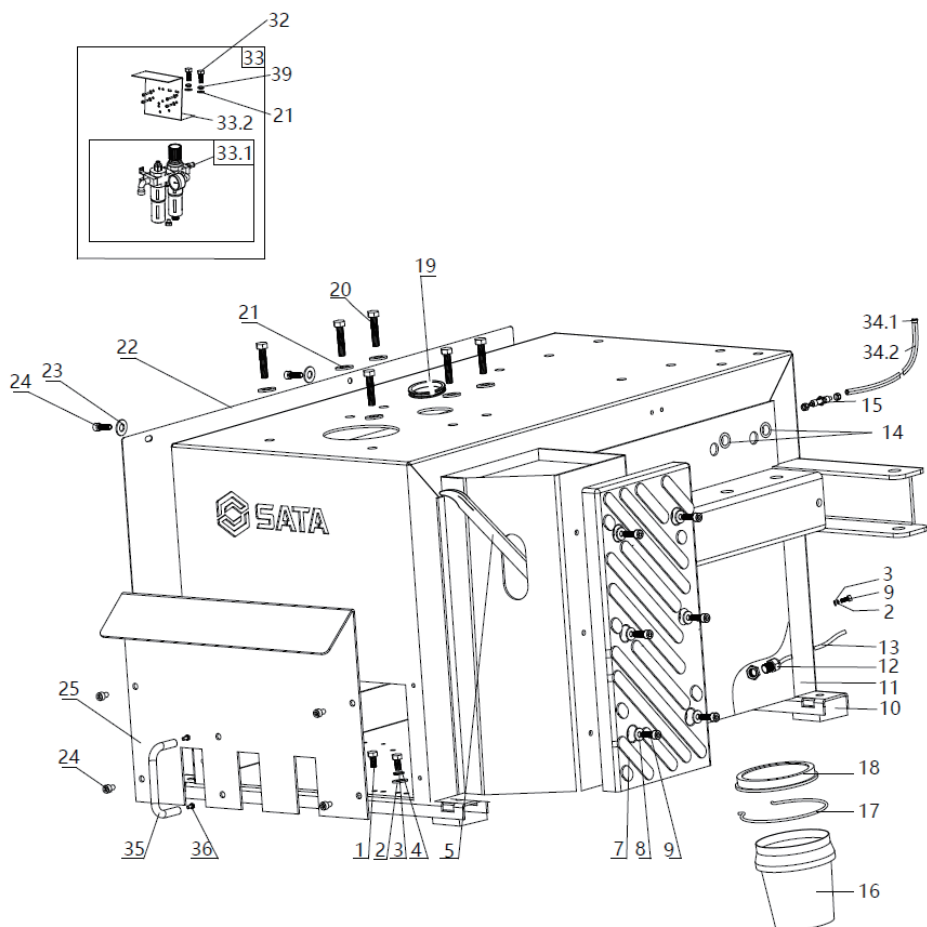


关接线图 220V/380V(99*474)

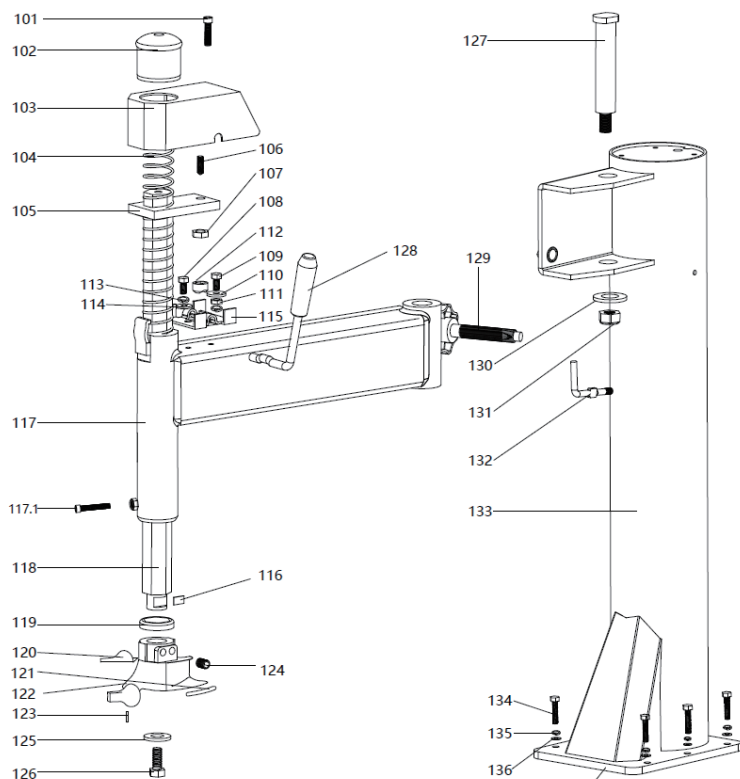


第十章 产品爆炸图

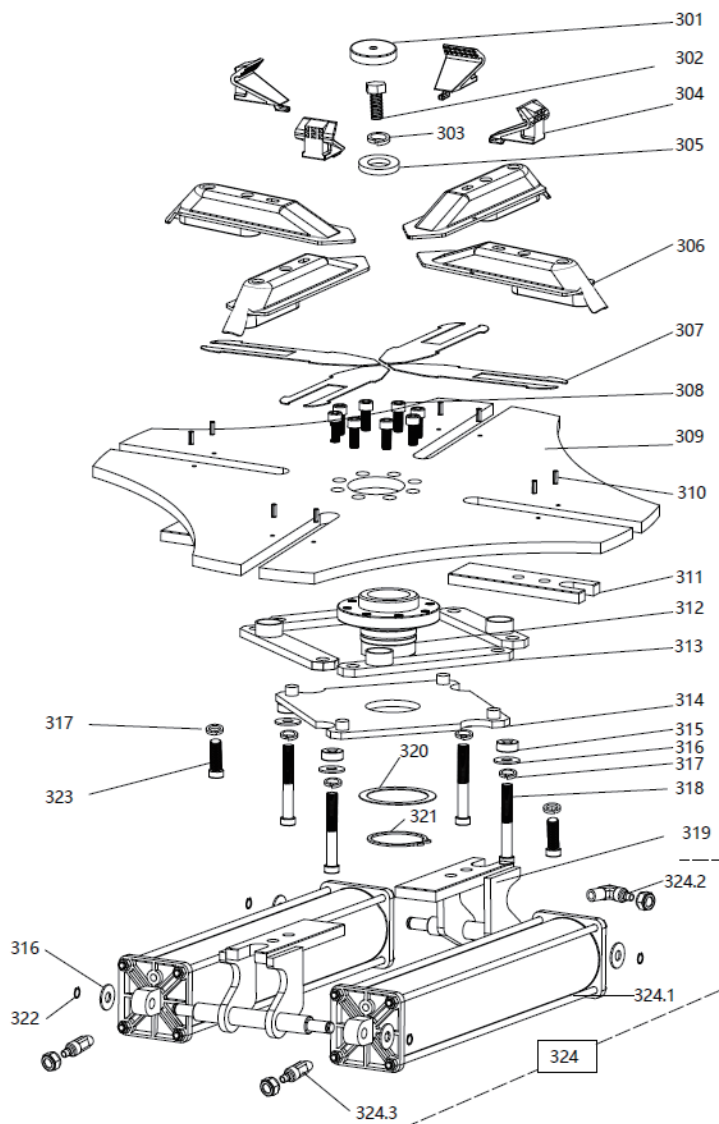
1、箱体总成：



图号	配件物料号	名称	数量
1	PAE1021-108	外六角螺栓 M8*20	2
2	PAE1021-113	弹性垫圈 $\phi 8$	2
3	PAE1021-110	平垫圈 $\phi 8^*24^*2$	2
4	PAE1024-01	外六角螺栓 M8*16	1
5	PAE1021-5	撬杆 20"	1
7	PAE1024-02	压胎胶板	1
8	PAE1021-114	平垫圈 $\phi 8^*17$	6
9	PAE1021-308	内六角圆柱头螺栓 M8*20	9
10	PAE1021-10	橡胶脚垫	4
11	PAE1022-11	机箱	1
12	PAE1021-12	电缆螺丝 G13.5	1
13	PAE1021-13	带插头电源线 3.0m	1
14	PAE1021-14	护线圈 $\phi 16$	2
15	PAE1021-15	快拧隔板直通 2*8*5	1
16	PAE1021-16	圆形油桶	1
17	PAE1021-17	油盒架	1
18	PAE1021-18	圆形油盒盖	1
19	PAE1021-19	护线圈 $\phi 45$	1
20	PAE1021-20	外六角螺栓 M10*160	8
21	PAE2021-209	平垫圈 $\phi 10^*20^*2$	12
22	PAE1024-03	左侧板组件	1
23	PAE2021-311	平垫圈 $\phi 6^*12^*1.5$	2
24	PAE1021-24	内六角圆柱头螺栓 M6*10	8
25	PAE1021-25	前盖 (摇臂)	1
32	PAE1021-127	外六角螺栓 M10*25	2
33	PAE1021-33	油雾器总成 (带支架)	1
33.1	PAE1021-33A	油雾器总成	1
33.2	PAE1025-28	油雾器支架	1
34.1	PAE1021-34A	快速母头 SP20-T	1
34.2	PAE1021-34B	弹簧管 UC $\phi 8^*5-5$	1
35	PAE1021-35	圆钢 U 型拉手 $\phi 10$	1
36	PAE2021-118	十字槽半圆头带垫螺钉 M4*10	2
33.1	PAE1021-33A	油雾器总成 (不带支架)	1
33.2	PAE1025-28	油雾器支架	1
34.1	PAE1021-34A	快速母头 SP20-T	1
34.2	PAE1021-34B	弹簧管 UC $\phi 8^*5-5$	1
35	PAE2021-405	内六角圆柱头螺栓 M6*16	2
36	PAE1021-127	外六角螺栓 M10*25	2

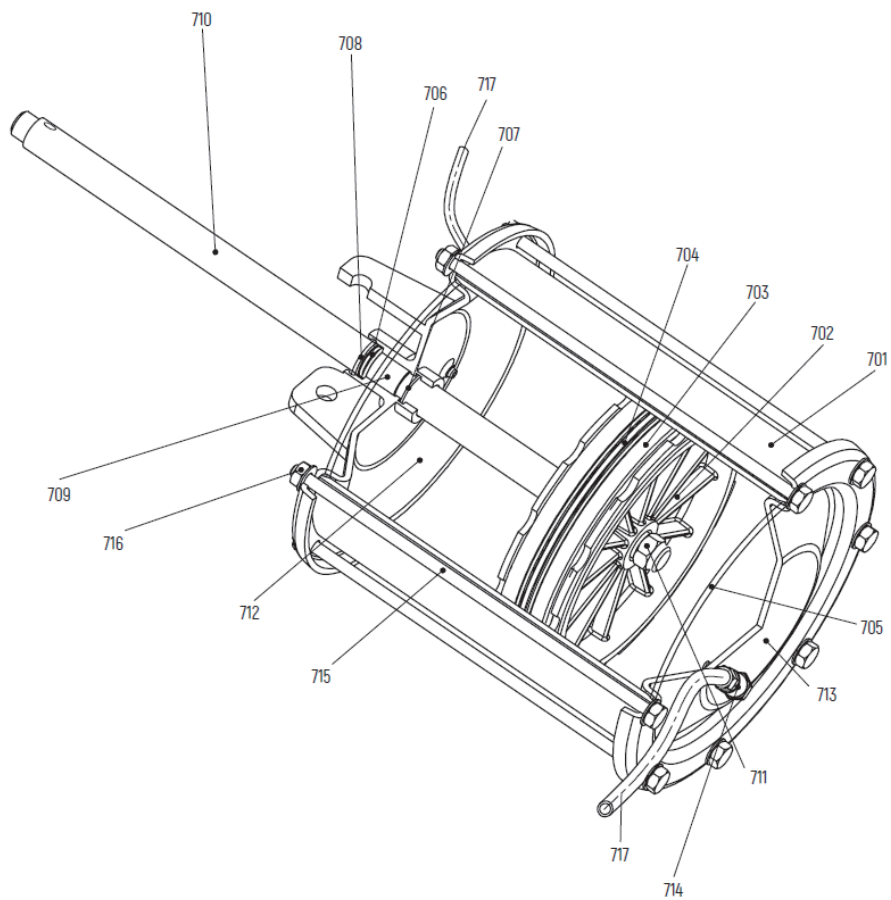
2、立柱总成：


图号	配件料号	名称	数量
101	PAE1021-101	内六角 M8*35	1
102	PAE1021-102	六角压杆帽 S40	1
103	PAE1021-103	锁紧座帽	1
104	PAE1021-104	压杆弹簧 $\phi 3.5 \times 55 \times 500$	1
105	PAE1021-105	锁紧板 12*60	1
106	PAE1021-106	锁紧定位钉	1
107	PAE1021-107	螺母 M12	1
108	PAE1021-108	外六角螺栓 M8*20	1
109	PAE1021-109	外六角螺栓 M8*25	1
110	PAE1021-110	平垫圈 $\phi 8$	1
111	PAE2021-126	螺母 M8	1
112	PAE1021-112	偏心轴瓦	1
113	PAE1021-113	弹性垫圈 $\phi 8$	2
114	PAE1021-114	平垫圈 $\phi 8$	1
115	PAE1021-115	锁紧手柄座	1
116	PAE1021-116	六方杆鸟头锰钢垫	1
117	PAE1024-04	摇臂	1
117.1	PAE1021-118	内六角圆柱头螺栓 M8 \times 40	1
118	PAE1021-119	六角压杆	1
119	PAE1021-120	防震垫 S40*50*10	1
120	PAE1021-121	拆装头填充垫 - 后	1
121	PAE1021-122	拆装头填充垫 - 前	1
122	PAE1021-123	拆装头 3#	1
123	PAE1021-124	圆柱销 M5*24	1
124	PAE1021-125	内六角凹端紧钉螺钉 M12*16	4
125	PAE1021-126	拆装头平垫圈 $\phi 10.5$	1
126	PAE1021-127	外六角螺栓 M10*25	1
127	PAE1024-05	摇臂销	1
128	PAE1021-129	锁紧手柄	1
129	PAE1021-130	立柱调节手柄	1
130	PAE1021-131	工作台大垫圈	1
131	PAE1021-132	自锁螺母 M16	1
132	PAE1021-133	立柱挂钩	1
133	PAE1024-06	立柱	1
134	PAE1021-135	外六角螺栓 M10*60	6
135	PAE2021-208	弹性垫圈 $\phi 10$	8
136	PAE2021-209	平垫圈 $\phi 10 \times 20 \times 2$	8

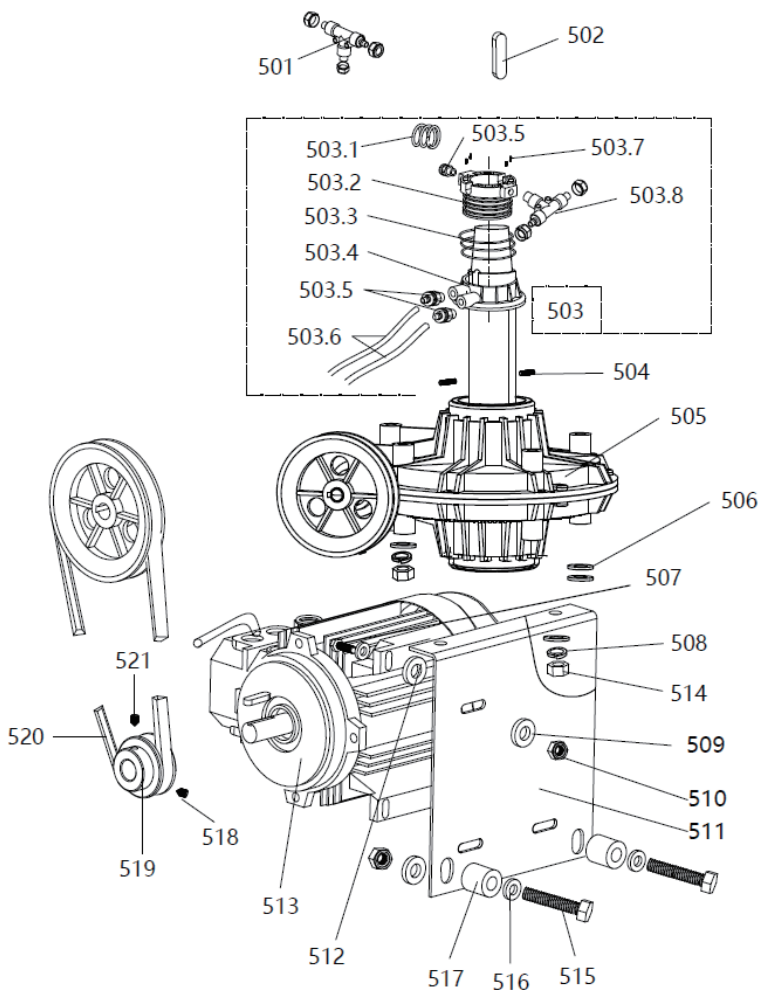
3、工作台总成：


序号	配件物料号	名称	数量
301	PAE1021-301	工作平台封盖	1
302	PAE1021-302	外六角螺栓 M16*40	1
303	PAE1021-303	弹性垫圈 ϕ 16	1
304	PAE1021-304	卡爪	4
305	PAE1021-131	工作台大垫圈	1
306	PAE1021-306	卡爪座帽组件	4
307	PAE1021-307	导向片	4
308	PAE1021-308	内六角圆柱头螺栓 M8*20	8
309	PAE1021-309	工作台板	1
310	PAE1021-310	弹性销 5*16	8
311	PAE1021-311	座下板	4
312	PAE1021-312	工作台锥套	1
313	PAE1021-313	拉条组件	4
314	PAE1021-314	方形转盘组件	1
315	PAE1021-315	拉杆条销套	4
316	PAE1021-316	平垫圈 ϕ 12*24*2	8
317	PAE1021-317	弹性垫圈 ϕ 12	8
318	PAE1021-318	外六角螺栓 12*80	4
319	PAE1021-319	B 型卡爪座总成	1
320	PAE1021-320	方形转盘垫片	1
321	PAE1021-321	卡簧 [轴用] ϕ 65	1
322	PAE1021-322	卡簧 [轴用] ϕ 12	4
323	PAE1021-323	外六角螺栓 M12*35	4
324	PAE1024-07	夹紧气缸总成 75*325	2
324.1	PAE1024-08	气缸 75*325	2
324.2	PAE1021-324B	快拧弯头 1/8- ϕ 8*5	2
324.3	PAE1021-324C	快拧直通 1/8- ϕ 8*5	2

4、大气缸总成：

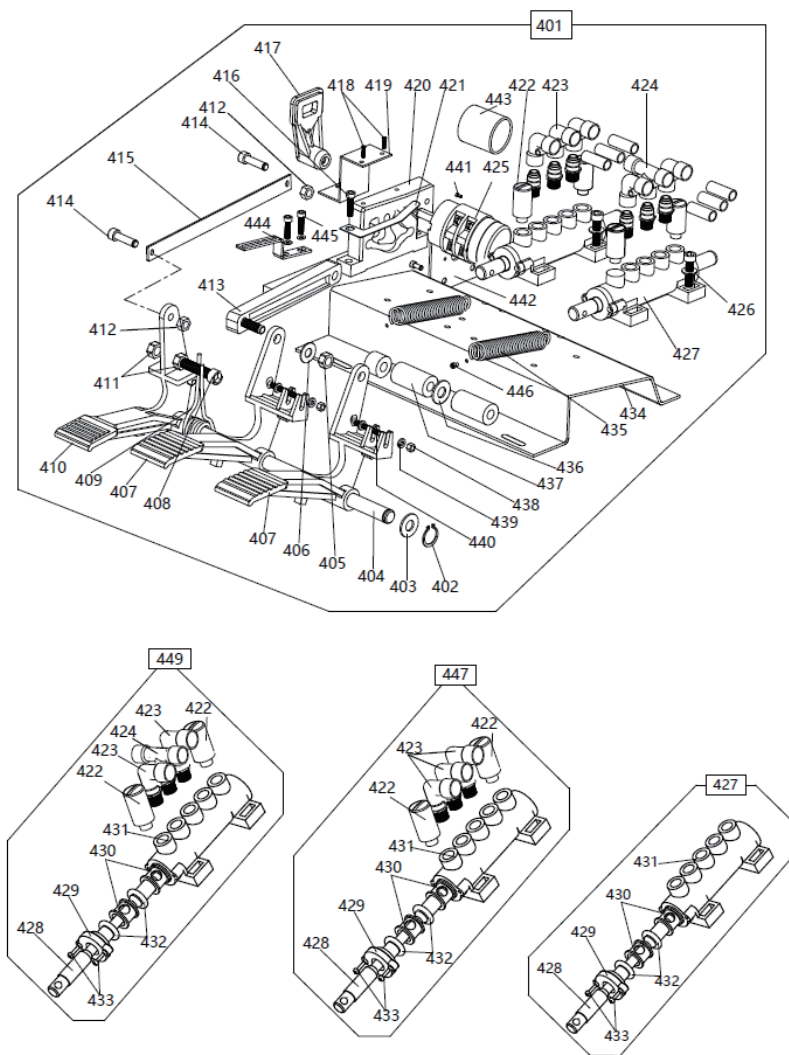


序号	配件物料号	名称	数量
700	PAE1024-31	大气缸 (总成)	1
701	PAE1024-32	大气缸缸筒 200	1
702	PAE1024-33	活塞 200	1
703	PAE1024-34	V 型密封圈	2
704	PAE1024-35	活塞导向环	1
705	PAE1024-36	O 型密封圈 $\phi 197 \times 2.65$	2
706	PAE1021-706	骨架防尘圈	1
707	PAE1021-707	密封圈 $\phi 19 \times 2.65$	1
708	PAE1021-708	$\phi 30$ 孔用卡簧	1
709	PAE1021-709	铜套 20*23*20	1
710	PAE1021-710	活塞杆	1
711	PAE1021-711	外六角螺母 M18	1
712	PAE1024-37	上缸盖	1
713	PAE1024-38	下缸盖	1
714	PAE1021-423	快插弯头 1/8- $\phi 8 \times 5$	2
715	PAE1021-715	外六角螺栓 M8*230mm	8
716	PAE1021-716	自锁螺母 M8	8
717	PAE1024-42	气管 $\phi 8 \times 900$ mm	2

5、电机部分：


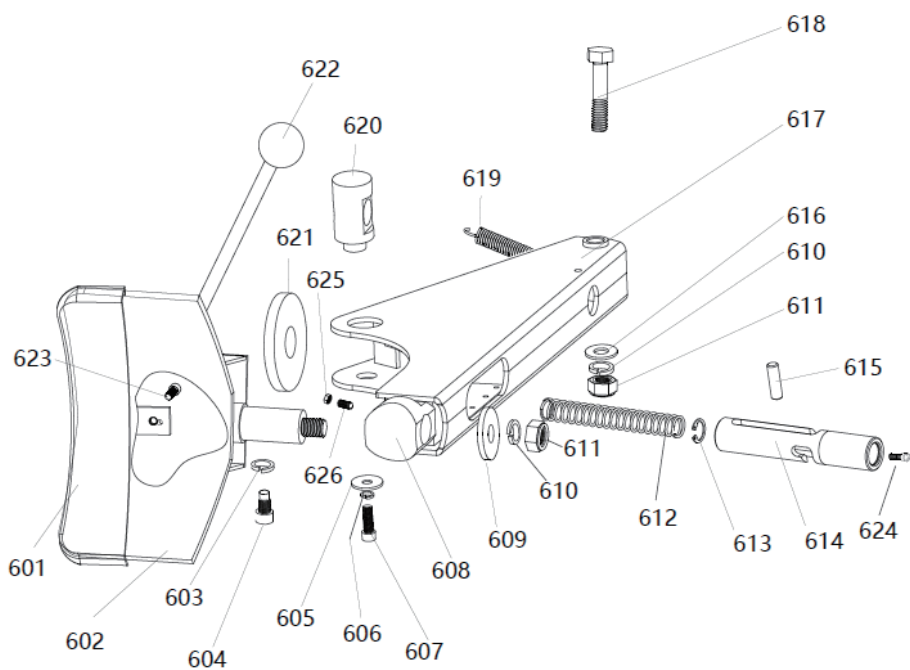
序号	配件物料号	名称	数量
501	PAE1024-39	快拧三通 3*φ8*5	1
502	PAE1024-40	A 型平键 10*40	1
503	PAE1021-520	旋转配气阀总成	1
503.1	PAE1021-34B	弹簧管 UCφ8*5-5	1
503.2	PAE1024-12	配气阀芯	1
503.3	PAE1024-13	O 型密封圈 φ61.5*3.55	3
503.4	PAE1024-14	配气阀套	1
503.5	PAE1021-324C	快拧直通 1/8-φ8*5	3
503.6	PAE1024-15	气管 φ8*900	2
503.7	PAE1024-16	内六角凹端紧钉螺钉 M4*6	4
503.8	PAE1024-17	快拧三通 1/8-2*φ8*5	1
504	PAE1024-18	内六角凹端紧钉螺钉 M10*35	2
505	PAE1024-19	蜗轮箱总成	1
506	PAE2021-209	平垫圈 φ10	8
507	PAE1024-20	外六角螺栓 M8*30	4
508	PAE2021-208	弹性垫圈 φ10	6
509	PAE1021-110	平垫圈 φ8	6
510	PAE1021-716	自锁螺母 M8	4
511	PAE1024-21	通用电机支架	1
512	PAE1024-22	电机橡胶垫 φ10*20*2	6
513	PAE1024-23	电机 60HZ/110V/1.1KW	1
	PAE1024-24	电机 50HZ/220V/1.1KW	
	PAE1024-25	电机 50HZ/380V/0.75KW	
514	PAE1021-620	螺母 M10	6
515	PAE1024-26	外六角螺栓 M8*100	2
516	PAE1021-114	平垫圈 φ8*17	2
517	PAE1024-27	防震胶垫	2
518	PAE1021-508A	内六角凹端紧钉螺钉 M8*12	1
519	PAE1024-28	电机皮带轮	1
520	PAE1024-29	多楔皮带 AV13*735	1
521	PAE1021-508A	内六角凹端紧钉螺钉 M8*12	1

6、脚踏总成：



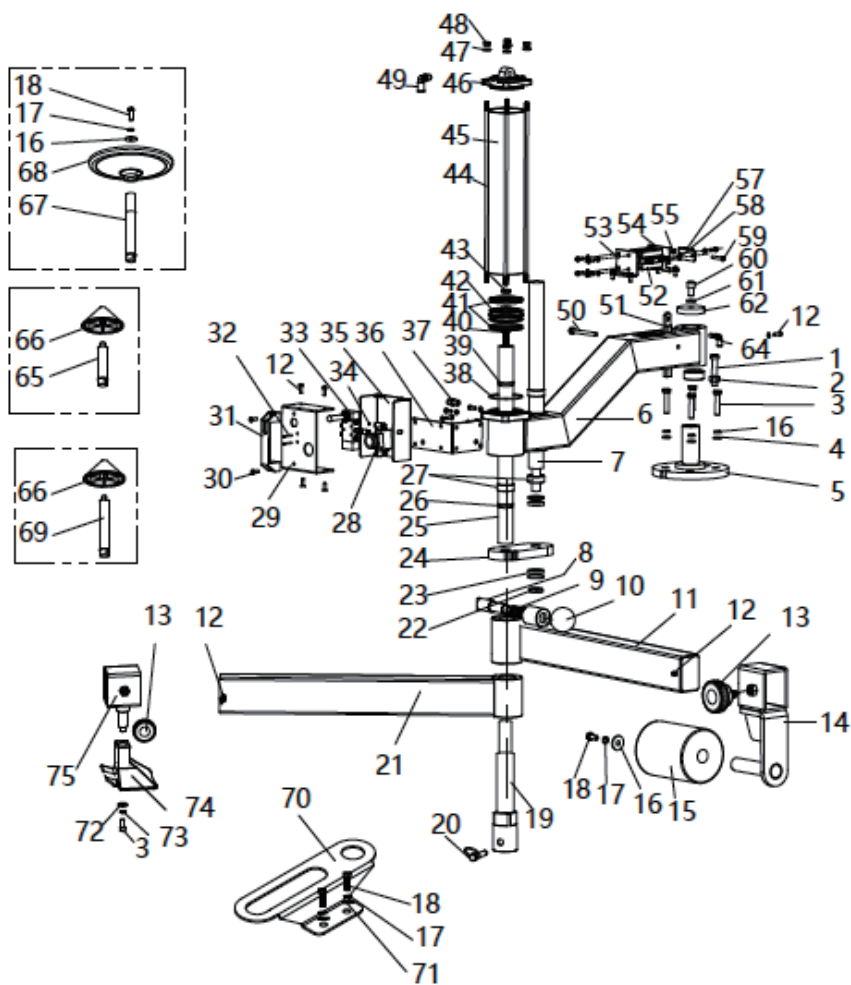
序号	配件物料号	名称	数量
401	PAE1021-401	三脚踏总成	1
402	PAE1021-322	卡簧 $\phi 12$	2
403	PAE1021-403	平垫圈 $\phi 12$	2
404	PAE1021-404	轴 $\phi 12 \times 282$	1
405	PAE1021-716	自锁螺母 M8	3
406	PAE1021-114	平垫圈 $\phi 8 \times 17$	2

序号	配件物料号	名称	数量
407	PAE1021-407	大脚踏板	2
408	PAE1021-509	外六角螺栓 M8*70	1
409	PAE1021-409	脚踏扭簧 $\phi 3.5 \times 20.4 \times 70$	1
410	PAE1021-410	大脚踏板	1
411	PAE2021-126	螺母 M8	2
412	PAE1021-716	自锁螺母 M8	2
413	PAE1021-413	凸轮连杆	2
414	PAE1021-414	内六角沉头螺栓 M8*20	4
415	PAE1021-415	开关支架 2	1
416	PAE1021-416	内六角圆头螺栓 M6*25	10
417	PAE1024-09	倒顺开关手柄	1
418	PAE1021-418	十字槽半圆头自攻螺钉 3*10	4
419	PAE1021-419	凸轮罩	2
420	PAE1021-420	凸轮体	1
421	PAE1021-421	凸轮弹簧片	1
422	PAE1021-422	消声器 1/8	4
423	PAE1021-423	快插弯头 1/8- $\phi 8$	5
424	PAE1021-424	快插三通 1/8-2* $\phi 8$	1
425	PAE1021-425	转换开关	1
426	PAE2021-311	平垫圈 $\phi 6$	11
427	PAE1021-427	五通阀体总成	2
428	PAE1021-428	五通阀杆 12mm	2
429	PAE1021-429	五通阀盖	2
430	PAE1021-430	五通阀隔套	10
431	PAE1021-431	五通阀体	2
432	PAE1021-432	O 型密封圈 12*20*4	12
433	PAE1021-418	十字槽半圆头自攻螺钉 3*10	6
434	PAE1021-434	脚踏支架组焊	1
435	PAE1021-435	脚踏拉簧	2
436	PAE1021-316	平垫圈 $\phi 12 \times 24 \times 2$	9
437	PAE1021-437	轴套 2	1
438	PAE1021-438	自锁螺母 M4	2
439	PAE1021-439	十字槽沉头螺钉 M4*35	2
440	PAE1021-440	平垫圈 $\phi 4$	2
441	PAE2021-118	十字槽半圆头带垫螺钉 M4*10	1
442	PAE1021-442	开关支架	1
443	PAE1021-443	开关胶套	1
444	PAE1021-444	扭簧限位支架	1
445	PAE2021-405	内六角圆柱头螺栓 M6*16	2
446	PAE1021-446	内六角圆头螺栓 M5*10	1
447	PAE1024-10	五通阀总成	1
449	PAE1024-11	五通阀总成	1

7. 铲臂总成:


序号	配件物料号	名称	数量
601	PAE1023H-41	压胎铲护套	1
602	PAE1021-602	压胎铲	1
603	PAE1021-603	弹性垫圈 $\phi 14$	2
604	PAE1021-604	定位钉	2
605	PAE1021-605	平垫圈 $\phi 8^*30^*2$	1
606	PAE1021-113	弹性垫圈 $\phi 8$	1
607	PAE1021-108	外六角螺栓 M8*20	1
608	PAE1021-608	压胎铲转轴	1
609	PAE1021-131	工作台大垫圈	1
610	PAE1021-303	弹性垫圈 $\phi 16$	2
611	PAE1021-132	自锁螺母 M16	2
612	PAE1021-612	调节套压簧 $\phi 1.5^*19.5^*125$	1
613	PAE1021-613	孔用卡簧 $\phi 20$	1
614	PAE1021-614	大气缸活塞杆调节套	1
615	PAE1021-615	大气缸活塞杆销轴 10^*33	1
616	PAE1021-616	平垫圈 $\phi 16^*30^*2$	1
617	PAE1021-617	铲臂	1
618	PAE1021-618	外六角螺栓 M16*100	1
619	PAE1024-30	铲臂拉簧 $\phi 2.5^*20^*70$	1
620	PAE1024-41	大气缸拉杆套	1
621	PAE1021-621	铲臂胶垫 (薄)	1
622	PAE1021-622	黑球手柄 M16*50	1
623	PAE1021-24	内六角圆柱头螺栓 M6*10	1
624	PAE2021-405	内六角圆柱头螺栓 M6*16	1
625	PAE1021-625	螺母 M10 (薄)	1
626	PAE1021-626	内六角凹端紧定螺钉 M10*20	1

8、辅助臂：



序号	配件物料号	名称	数量
1	PAE1024H-01	内六角圆柱头螺栓 M10*45	1
2	PAE1024H-02	螺母 M10	1
3	PAE1024H-03	外六角螺栓 M10*35	4
4	PAE1024H-04	平垫圈 Ø 10	1
5	PAE1024H-05	安装座组焊件	1
6	PAE1024H-30	中心转臂组焊件	1
7	PAE1021-H7	导杆	1
8	PAE1021-H8	转臂定位销	1
9	PAE1021-H9	弹簧 Ø 1.2*18*30	1
10	PAE1021-H10	黑球手柄 M6*25	1
11	PAE1021-H11	压胎臂一组焊件	1
12	PAE1021-24	内六角圆柱头螺栓 M6*10	25
13	PAE1021-H13	直纹把手 D50*M10*25	2
14	PAE1021-H14	压胎滑座组焊件	1
15	PAE1021-H15	90 压胎滚	1
16	PAE2021-211	平垫圈 Ø 10*35*4	2
17	PAE2021-208	弹簧垫圈 Ø 10	4
18	PAE1021-127	六角头螺栓 M10*25	4
19	PAE1021-H19	中心锁紧套	1
20	PAE1021-H20	安全销	1
21	PAE1021-H21	压胎臂二组焊	1
22	PAE1024H-06	扁螺母 M20*1.5 厚 10	1
23	PAE1024H-07	球面垫圈 Ø 20	2
24	PAE1024H-08	锁板	1
25	PAE1024H-09	80 气缸 Ø 35 光轴	1
26	PAE1024H-10	防尘密封圈 FC35*45*6.5*8.5	1
27	PAE1024H-11	铜套 35*39*15	3
28	PAE1024H-12	机械阀 MOV-04	1
29	PAE1024H-13	手推阀前罩	1
30	PAE1021-308	内六角圆柱头螺栓 M8*20	2
31	PAE1021-H28	护罩手柄	1
32	PAE1024H-14	十字槽沉头螺钉 M4*30	2
33	PAE1021-H27	手推阀总成	1
34	PAE1021-438	自锁螺母 M4	2

序号	配件物料号	名称	数量
35	PAE1024H-15	手推阀后罩	1
36	PAE1024H-16	手推阀后支架	2
37	PAE1022-113	快插直通 1/8- Ø 6	1
38	PAE1024H-17	O 型密封圈 Ø 75* Ø 2.65	2
39	PAE1024H-18	密封圈 UN35*45*6	1
40	PAE1024H-19	O 型密封圈 Ø 11.8* Ø 1.8	1
41	PAE1024H-20	Y 型圈 YC80	2
42	PAE1024H-21	80 气缸活塞	1
43	PAE1021-107	螺母 M12	1
44	PAE1024H-22	气缸拉杆螺柱 420	4
45	PAE1024H-23	气缸筒 80*387	1
46	PAE1024H-24	单耳 80 气缸后盖	1
47	PAE1021-114	平垫圈 Ø 8	1
48	PAE1021-716	自锁螺母 M8	1
49	PAE1021-H34	快插弯头 3/8- Ø 6	6
50	PAE1024H-25	外六角螺丝 M8*80	1
51	PAE1024H-26	插销	1
52	PAE1024H-27	气缸 SSA32*20 总成	1
53	PAE1024H-28	小气缸后支架	1
54	PAE1024H-29	小气缸前支架	1
55	PAE1022-H14	自锁螺母 M6	1
57	PAE1024H-31	小气缸支耳	1
58	PAE1024H-32	内六角圆柱头螺栓 M6*45	1
59	PAE1024H-33	内六角圆柱头螺栓 M6*35	1
60	PAE1024H-34	内六角圆柱头螺栓 M12*35	1
61	PAE1021-317	弹性垫圈 Ø 12	1
62	PAE1024H-35	大垫片 12	1
64	PAE1024H-37	快插弯通 6-6	1
65	PAE1021-H39	中心定位杆短	1
66	PAE1021-H40	中心定位锥	2
67	PAE1021-H41	托胎盘安装杆	1
68	PAE1021-H42	托胎盘	1
69	PAE1021-H43	中心定位杆长	1



序号	配件物料号	名称	数量
70	PAE1021-H44	中心轴放置架	1
71	PAE2021-209	平垫圈∅ 10	2
72	PAE1021-110	平垫圈∅ 8	2
73	PAE1021-113	弹性垫圈∅ 8	1
74	PAE1021-H49	压胎头	1
75	PAE1021-H50	压胎滑座组焊件 2	1



Technical parameters	External rim diameter	Inner rim diameter	Rim width	Max wheel diameter	Big cylinder push-pull force
AE1024H	10-21"	12-24"	330mm	1010mm	2500 kgf
AE1024H-3					
Technical parameters	Big disk speed	Work pressure	Work noise	Outer box size	Gross/net weight
AE1024H	6 rpm	8-10 bar	≤ 70 db	1150*950*1020mm	304Kg/279 Kg
AE1024H-3					

Check the product immediately after unpacking to ensure that the product is in good condition. If any parts are missing or damaged, please contact the Customer Service Department of SATA Automotive Technology (Shanghai) Co., Ltd by phone:400-820-3885, 800-820-3885.

Please record the product serial number:

Note: If the product does not have a serial number, record the date of purchase.

Please keep the instruction properly:

- 1) The instruction contains information on safety warnings, installation, maintenance, and troubleshooting of the product. Keep it properly.
- 2) Please record the serial number (or purchase date) of this product on the front page of the instruction, and keep it in a dry and safe place for reference.
- 3) Please fully understand the contents of the instruction for correctly using the product.
- 4) This product has been insured with product liability insurance.



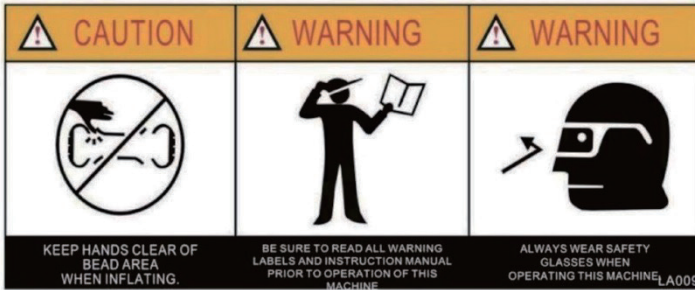
Chapter I Safety precautions

- Improper operations can result in personal injury and equipment damage.
- Please read and understand the instructions carefully before use.
- Keep children and other unauthorized personnel away from the work area.
- Ensure that the equipment is connected to the correct power supply and air source and is reliably grounded.
- Please use the device on a flat, level, dry and reliable bearing surface.
- To avoid accidental startup, ensure that the equipment is shut down and the power supply is disconnected before maintenance.
- Keep the guards and safety devices in the correct position and in working order.
- Keep the work area clean and well lit. Messy or dark areas can cause accidents
- Avoid overload. Otherwise, the accident liability is not covered by the insurance.
- Keep the device away from heat and fire sources. High temperature may cause damage to the device and sealed components.
- Avoid hazardous environments and do not use equipment in wet environments or expose it to rain.
- No untrained personnel is allowed to use the equipment, and it is not allowed to disassemble or modify the equipment without permission.
- Install the wheels correctly, and fasten them to the equipment in a proper way according to different hubs.
- Check carefully before use each time, and do not use it if there is oil leakage, and loose or damaged parts or accessories.
- Let professional personnel with professional maintenance qualification maintain the equipment reasonably. If parts need to be replaced, please use the original parts.
- When operating, wear safety shoes, protective glasses and work gloves in accordance with the relevant national safety protection regulations. Relevant SATA products are recommended.
- It is strictly prohibited to use the device in such circumstances as after drinking, lack of energy and concentration, drowsiness under the influence of drugs or unconsciousness.

Warning

The cautions, warnings, instructions, etc. contained in the instruction do not cover all possible situations. Operators must understand that daily care and professional knowledge are indispensable factors in the operation of this product.

1.1 Warning label



Keep your hands away from the tires during operation

Wear protective equipment when operating

Read the instruction carefully before use



Danger of electric shock!



Note: Do not touch the sidewall of the tire with your hands when pressing the tire



Do not put any part of the body under the disassembling and assembling head



When clamping the rim, keep your hands and other parts away from the area between the pawl and the rim



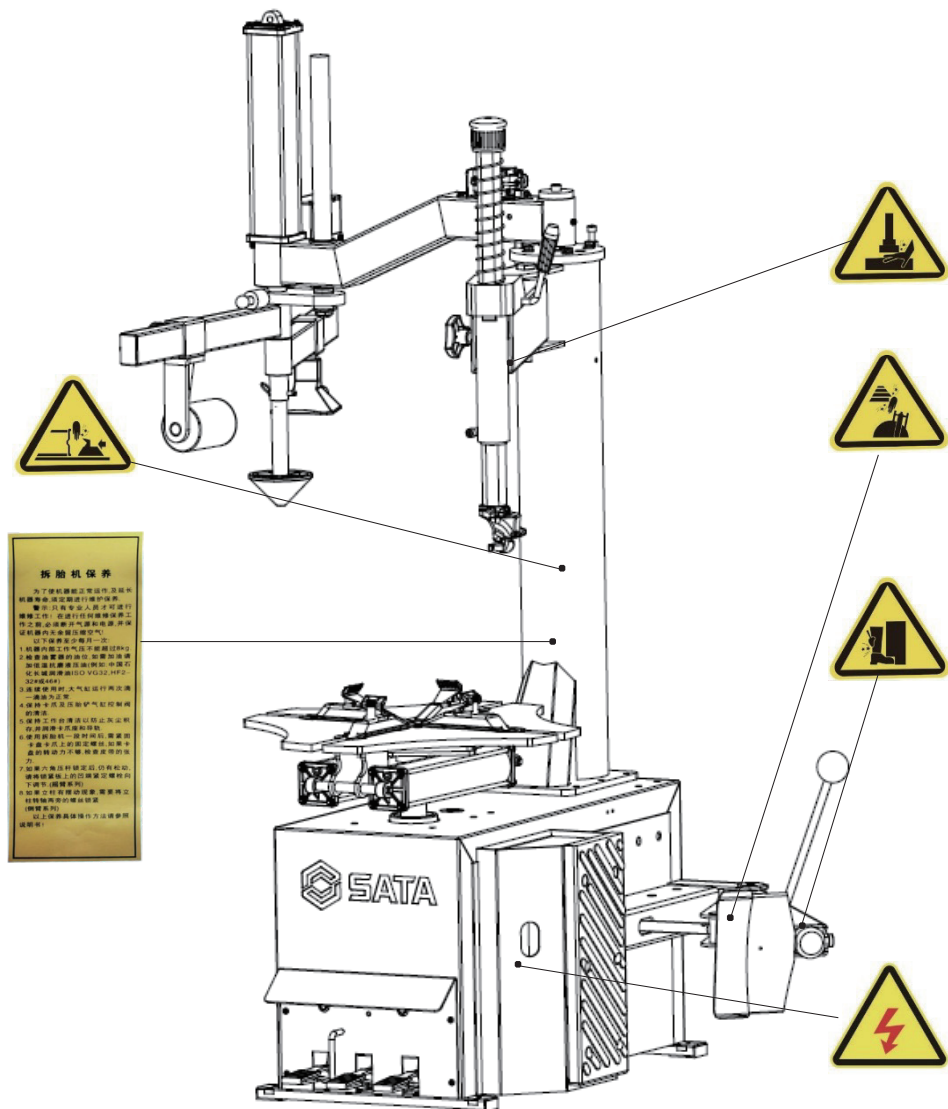
When pressing the tire, do not stand between the shovel blade and the tire to avoid injury



Avoid injury due to bending backward of column

1.2 Diagram of safety mark location

Keep the safety mark intact, and replace it immediately if blurred or missing. Keep the safety mark clearly visible to the operator with meaning clearly indicated

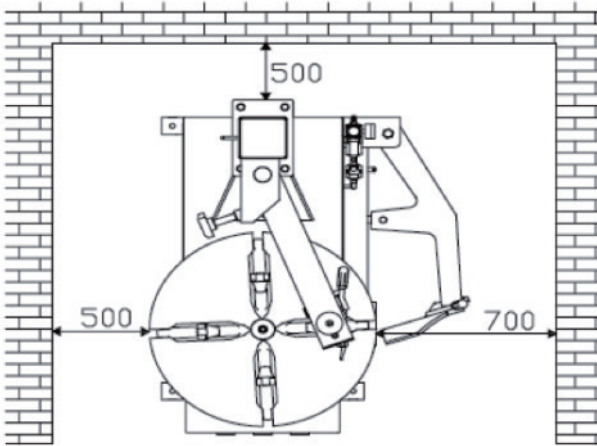


Chapter II Installation instructions

The installation of the tire changer must be done by professional personnel. Safe and effective use depends on proper installation. If you have any questions, please contact an authorized SATA distributor.

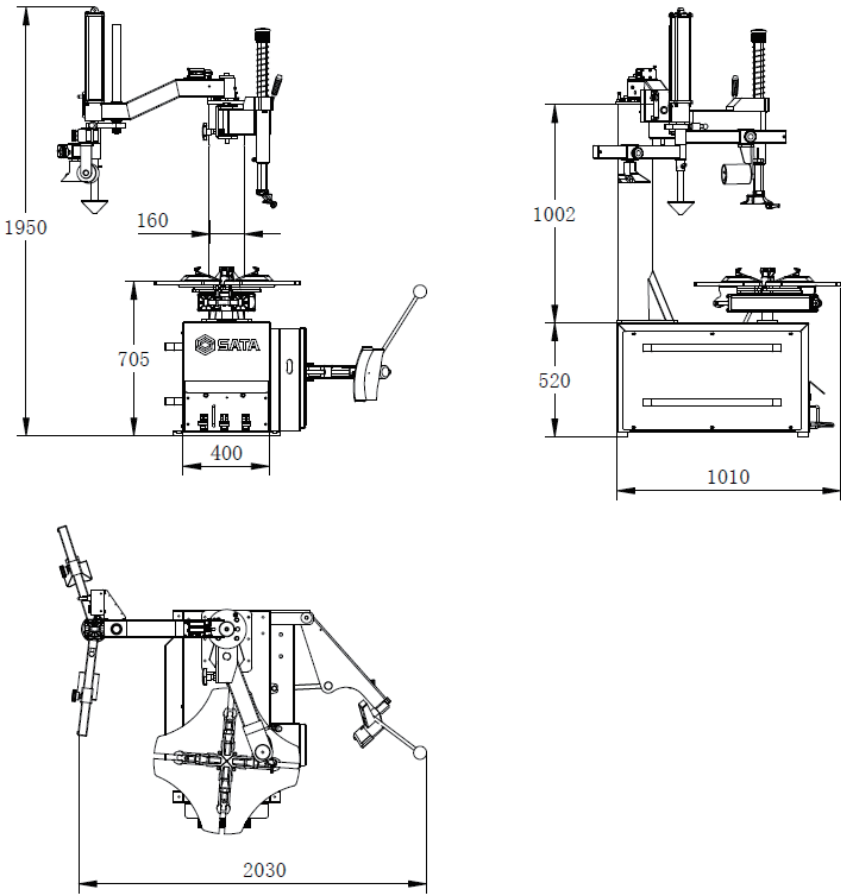
2.1 Device size and usage space

- The tire changer must be placed on a solid flat floor and bolted in place.
- The location where the tire changer is installed must have power supply and air source nearby, connected together.
- Adequate operating space shall be left around the tire remover at the place suitable for installing the tire remover.
- Make sure there is enough space above and behind the selected position for the auxiliary or inverted arm to work properly
- At least 500mm operation space should be left on the right side and front side of the tire changer for tire removal and installation, as well as pressing.





AE1024H/AE1024H-3 Dimensional drawing



2.2 Safety rules

- The equipment should be operated by professional or trained personnel.
- The company is not responsible for any unauthorized operation of the equipment (especially the electrical part).
- Any handling of the electrical part should only be done by professional personnel.

2.3 Transportation/unpacking

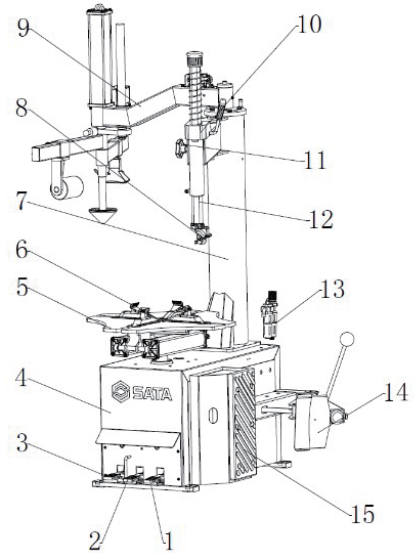
- Use forklift to move, with the lifting position shown in the figure on the right.
- Remove the package and check the equipment for damage.
- Keep packing materials away from children to avoid danger.

Note


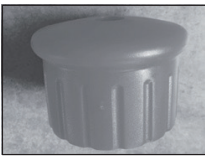





The surface of the equipment is coated with a layer of special antirust oil, which is easy to catch dust, and should be removed as far as possible when necessary.

2.4 Product diagram

- 1 Tire pressing pedal
- 2 Clamping pedal
- 3 Rotating pedal
- 4 Cabinet
- 5 Workbench
- 6 Claw
- 7 Column
- 8 Mounting head
- 9 Auxiliary arm assembly
- 10 Swing arm
- 11 Locking handle
- 12 Hexagon pressure rod
- 13 Oil atomizer
- 14 Tire pressing shovel arm
- 15 Tire pressing rubber pad

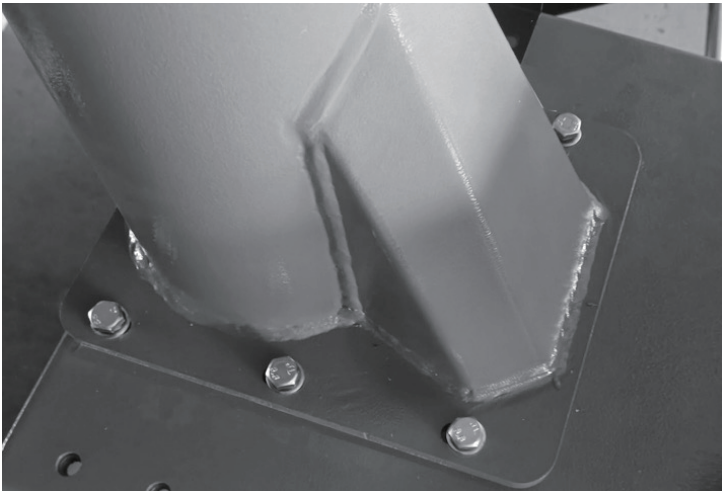


2.5 Standard fittings:

			
Inflation meter	Hexagon rod compression spring cap	Hexagon rod compression spring	20-inch crowbar
			
Disassembling and assembling head pad - front/rear	Crowbar sheath	Column hook	Instructions

2.6 Column installation

- Remove the bolts at the installation position of the column on the chassis, place the column assembly on the chassis, and put the warning
- label forward to align the holes on the bottom plate of the column with the screw holes on the chassis, and tighten with bolts again.





2.7 Installation of hexagon rod pressure spring

- Remove the screw on the pressure rod cap of the hexagon rod with a hexagon wrench. When removing the screw of the pressure rod cap, the hexagon rod shaft must be locked with a locking handle to prevent falling and causing equipment damage or personal injury accidents.
- Insert the pressure rod long spring into the pressure rod, reinstall the pressure rod cap and tighten it.



2.8 Power source connection

- Before energizing, check whether the network voltage is consistent with the voltage value indicated on the equipment label.
- Very important: The equipment is connected with the electrical system, which shall be equipped with circuit fuse, good grounding shall conform to the national standards, and leakage protection devices shall be provided for the equipment when necessary to ensure safe operation of the equipment.

2.9 Air source connection

- Step on the clamping pedal to ensure that the crankset claw will not suddenly open.
- Connect the air source to the oil-water separator with a quick connector. And adjust the pressure gauge to display air pressure.
- Connect the inflation gauge to the air source with a pipeline, and press the handle to confirm that the inflation function is normal.

2.10 Complete machine test

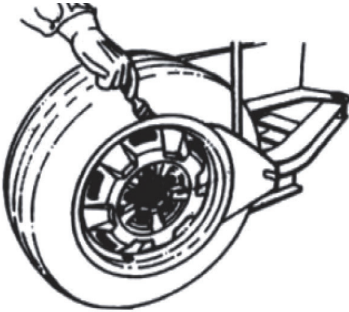
- Step on the rotating pedal to turn the crankset clockwise. Jack up the pedal to turn the crankset counterclockwise.
- Step on the clamping pedal to open the four crankset claw, and step on the pedal again to close the claw.
- Step on the tire pressing clamping pedal to put the tire leaning shovel into working state through the tire shovel, and step on the pedal again to return the tire leaning shovel to the original position.
- Check whether there is 1 oil drop dripping from the oil-water separator after stepping on the pedal for 3-4 times. If not, use screws for adjustment.
- **Note: For 380 V equipment models, if the rotation direction of the crankset is different from the above direction, replace the two phase lines on the 3-phase wiring terminal.**

Chapter III Operation Instruction

- Do not use the machine until you have read and understood the entire instructions and the warnings therein. Before the operation, release the air from the tire and remove all lead blocks from the wheel.
- The operation of the tire changer includes the following parts: a) tire leaning; b) tire dismounting; c) tire mounting.

3.1 Tire leaning

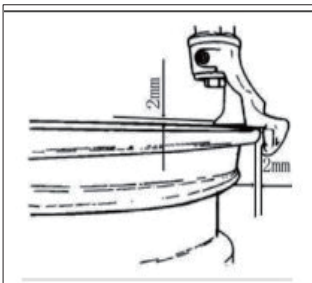
- Before operation, make sure all the original lead blocks are removed, remove the valve core, and check the deflation of tires.
- Place the tire between the tire pressing shovel and the tire pressing rubber pad, and then step on the tire pressing pedal to separate the tire bead from the rim. Repeat the above operations on other parts of the tire to completely separate the tire beads on both sides from the rim. Place the wheel with the tire bead separated from the rim on the rotary table, step on the clamp pedal to clamp the rim (The inside clamp or outside clamp can be selected according to the rim), and prepare to dismount the tire.



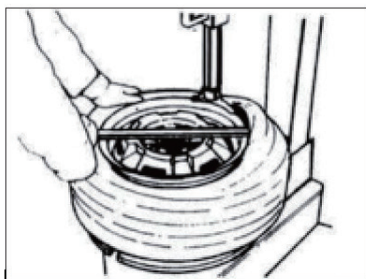
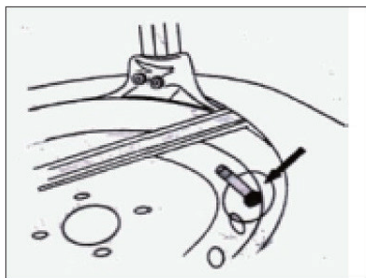
3.2 Tire dismounting

- Apply the supplied grease (or similar grease) on the tire opening. Failure to use grease will cause serious damage to the tire opening.
- Never put your hand under the tire while locking the rim. The correct fixing operation enables the tire to be just located in the center of the crankset to ensure that the rim is firmly fixed to the claw.
- Place the hexagon shaft in the working position to make the mounting head closely abut against the upper edge of the rim. Use the knob to hold the rocker arm against it. Then lock it up with the locking handle. The mounting head will automatically move up little clearance.

The angle of the mounting head has been adjusted according to the standard rim when leaving the factory. In case of extra large or small rims, please relocate.



- In order to avoid damaging the inner tube, the valve core shall be located on the right side of the tire dismounting head. Loose foreign matter or foreign matters near moving parts will endanger the operator.
- Use a crowbar to pry the tire bead onto the bulge part on head end of the mounting head. Step on the rotary table steering pedal to turn the rotary table clockwise until the upper tire bead is completely removed.
- If the tire dismounting is blocked, stop the vehicle immediately, lift the pedal and turn the rotary table counterclockwise to eliminate the obstacle!



3.3 Installing tire

- The most important thing is to check the tires and rims to prevent explosions during re-inflation. Before installation, make sure that: The tire and tread fibers were not damaged. Otherwise, do not install the tires; The rim is free of dents and warps; visually check to confirm that there are no tiny scratches on the inside of the aluminum rim, which are dangerous, especially when inflated.
- Use special grease for seam lubrication so as to avoid damage to seam and facilitate operation; Do not place your hands under the tire while locking the rim. The correct operation is to position the tire in the center of the big disk. Make sure no one is standing behind the column as it tilts.
- If the rims are of the same size, it is not necessary to lock or unlock the tire change arm frequently. All you need to do



is to tilt the column back or restore it to the working position, keeping the tire change arm in the working position.

- Never put your hands on the wheel. Returning the column to the working position can cause a crush injury to the operator's hand, making it sandwiched between the tire and the rim.
- Move the tire so that the bead passes under the front of the bird head, with the raised part of the bead against the back of the bird head, and push the bead into the slot of the rim by hand. Step on the pedal to make the big disk rotate clockwise. Continue this operation until the tire is fully mounted on the rim.
- To prevent industrial accidents, keep hands and other body parts as far away from the tire change arm as possible while the big disk is turning; put in the inner tube and repeat the above operations.
- When disassembling and assembling the tire, the big disk should turn clockwise. The counterclockwise rotation is only used for error correction when the machine stalls and the operator makes a mistake.

3.4 Air Inflation

- Be extremely careful when inflating tires, and strictly follow the following instructions. Because the tire ripper is not designed and manufactured to protect the people around from sudden tire burst.
- The tire burst may cause serious injury or even death of the operator. Carefully check that the rim and tire are of the same size. Before air inflation, check that the tires are free from defects or wear. Check the pressure after each air injection. In any case, do not exceed the pressure value recommended by the manufacturer, and keep your body and hands away from the tire as far as possible.
- The air inflation indicator used to inflate tires shall be under the standard version, and our tire changer is equipped with an air inflation indicator. The inflation procedures are as follows:
 - 1) Connect the air inflation indicator with the tire air valve;
 - 2) Finally, check the size coordination between the tire and the rim;
 - 3) Check whether the tire opening is fully lubricated, and if necessary, carry out further lubrication.
 - 4) Inflate and check the air pressure of air inflation indicator;
 - 5) Continue to inflate and check the air pressure while inflating.



Risk of explosion!

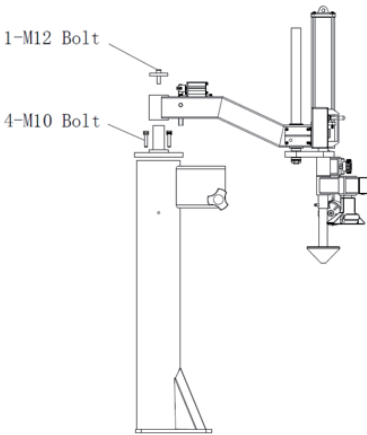
- Do not exceed 3.5 bar (51 psi) when inflating tires; before inflation, the tire will be dismantled from the crankset and placed in a special protective cage for inflation. Never exceed the inflation pressure recommended by the manufacturer. Hands and body shall be located on the rear side of the tire being inflated. Only specially trained and authorized personnel are allowed to carry out inflation operation, and other people are not allowed to operate or stay near the tire changer.
- In this process, the noise can reach 85 dB. Noise protection is recommended.

Chapter IV Installation and operation of auxiliary arm

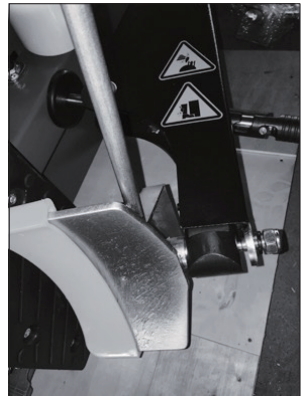
4.1 Disconnect the power and air source of the tire changer. Place the auxiliary arm on the top of the column of the tire changer, and fasten it with bolts. Connect the corresponding air pipes accordingly.

4.2 Operation instructions

The control handle is used to control the rising and falling of the tire pressing block and the tire pressing wheel, so as to adapt to the height of tire mounting and dismounting.



4.5 Tire pressing shovel Installation



1. Take out the tire pressing shovel, remove the gasket and locking nut on the shaft of the tire pressing shovel.
2. Insert the tire pressing shovel shaft into the shovel arm rotary shaft.
3. Install spacer and locking nut, and tighten them with wrench.

Chapter V Storage

If the equipment is to be stored for a long time, disconnect the power supply and air source. Lubricate all parts to be lubricated: sliders, slider slots on the big disk, and position for mounting auxiliary arm. Drain all oil/liquid storage. Cover the equipment with a plastic cover to prevent dust.

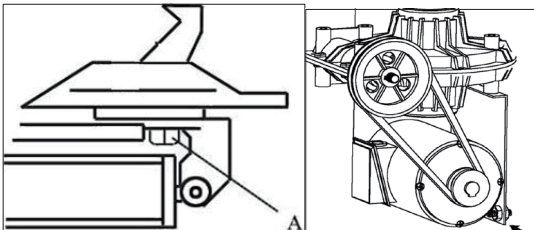
Chapter VI Scrapping

When the device expires and cannot be used any more, handle it properly according to local laws and regulations.

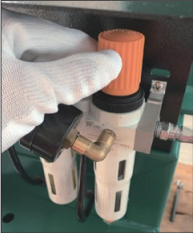
Chapter VII Daily Maintenance

To prolong the service life of the machine, regular maintenance should be carried out according to the instructions. Otherwise, the operation reliability of the machine will be affected, which may cause injury to the operator and people near the machine. Caution: Before maintenance at any time, it is necessary to disconnect the air source and power supply and step on the pedal 3-4 times to exhaust the remaining compressed air in the machine. The damaged parts must be replaced by professional maintenance personnel with the original spare parts provided by the factory.

- 1) Keep pawls and cylinder control valve of tire pressing shovel clean.
- 2) After using the machine for 20 days, re-tighten the fixing screw (A) on the chuck pawl.
- 3) If the turning power of the pawl disk is not enough, check the tension of the belt as follows. Loosen the screws on the left side plate of the body, remove the side plate, adjust the two adjusting screws for installing the motor, so that the distance between the adjusting bracket and the motor seat is appropriate, and then tighten the screws to tension the drive belt.
- 4) To open/close the large cylinder of pawl and tire pressing shovel reliably, the control valve connected with it should be kept clean, which can be maintained according to the following instructions. Remove the 4 screws on the left panel of the body and remove the side panel; Release the open/close pawl or valve body muffler on large cylinder control pedal.
- 5) Clean the dirt on the muffler with compressed air. If damaged, replace it according to the spare parts list.



- 6) The pressure is not more than 10 Ba.
- 7) Keep workbench clean to prevent dust accumulation, and lubricate pawl seat and rail.
- 8) If the swing arm is not locked or does not reach the required size, the swing arm locking plate needs to be adjusted.
- 9) If the column swings, it is necessary to lock the screws on both sides of the column rotating shaft.
- 10) Check the oil level of the oil cylinder of the oil atomizer. If refueling is required, loosen the screw with a hex wrench or unscrew the cylinder counterclockwise for refueling. Only VG32 lubricating oil can be added. If compressed air is connected, step on the pedal for the first time to see whether the oil atomizer drops the first drop of oil; When used continuously, step on the pedal to see whether the oil atomizer drops a drop of oil.



Pull out the cover and rotate it to adjust the pressure in a range of 8-10bar



Press the lid down to lock the pressure



Check the water level height of the steam-water separator regularly, which cannot exceed 50% of the height of the separator; turn the locking button to manually drain water if necessary.



Check the lubricating oil level daily, and open the oil cap to add oil when necessary. Note that it is forbidden to use lubricating oil that has been exposed to air for a long time.



Check the lubrication condition daily to ensure that the lubricant drops into the oil atomizer when the pedal is stepped on. Use a screwdriver to adjust the oil atomizer adjusting screw if necessary.



Chapter VIII Troubleshooting

8.1 Working disk does not move

Maintenance clue: Check whether it is an electrical fault or a mechanical fault.

Maintenance method:

- Step on or lift the reverse switch pedal and observe the motor reaction. If there is no reaction, use a multimeter to measure the reverse switch, and whether the voltage between the terminals is normal; If it is not normal, check the power supply line or power plug; If the voltage is normal, use a multimeter to measure whether the voltage of between terminals of the reverse switch is normal when stepping on and releasing the power switch pedal; If it is not normal, the reverse switch fails; If it is normal, the motor or capacitor fails.
- If the motor has a humming sound, but cannot turn, follow the same measurement method mentioned above. If the measurement result is abnormal, the reverse switch fails. If normal, turn the gearbox belt wheel by hand; If you can't turn it by hand, the gearbox fails. If you can rotate it by hand, the motor or capacitor fails.
- If the motor can rotate normally and the working disk does not rotate, it should be a gearbox failure, for example: Gearbox pulley does not drive the worm to rotate: Worm gear outburst.

8.2 Poor tire removing force

Maintenance method: observe the working condition of the motor when removing the tire. If the motor cannot rotate when removing the tire, the motor torque is too small or the capacitor is faulty. If the motor can run, but the pulley is slipping, it means the belt is too loose; just tighten the belt.

8.3 Pawls can't clamp the steel rim firmly

Maintenance method: check whether the supply air pressure meets the requirements of the instructions. If yes, check for air leakage or blow-by. If no, the concentric height of the pawl is improper.

8.4 The large cylinder cannot press the tire

Maintenance ideas: if the tire pressure is weak (including such situations as the large cylinder can run when no load, the tire cannot be pressed properly), the possible causes can be low pressure, leakage, or large cylinder blow-by. If the large cylinder cannot run without load, the possible reason is that the compressed air is not added to the tire pressing end of the large cylinder.

- Check whether the supply air pressure meets the requirements of the instructions. If yes, check whether the large cylinder leaks, check the air pipes controlling both ends of the large cylinder, and connect to the air source. In this case, air should be coming out of one of the two pipes on the five-way valve, and air should come out of the other air pipe when the tire pressing pedal is depressed. If no, the five-way valve should be replaced or its installation position should be adjusted to make it work normally.
- If the five-way valve is normal, connect the air pipe at the reset end. It is normal that there is no air coming out on the nipple of the tire pressing end. If yes, it indicates that the large cylinder piston is cracked or the seal ring is worn.
- Check the air pressure: Use a barometer to check whether the air pressure at the inlet of the oil atomizer meets the requirements of the instructions. If the air pressure at the inlet is not enough, increase the air supply of the air compressor. If the air pressure at the inlet meets the requirements and the air pressure at the outlet is not enough, adjust the pressure regulating knob of the oil atomizer. If the regulating knob does not work, replace the oil atomizer.

8.5 Tire disassembling and assembling head scraps the steel rim or bits the tire:

- Hexagonal column pin lock is not tight
 - The screws on the disassembling and assembling head are loose or in the wrong direction
 - The gap between the hexagonal column and the hexagonal sleeve is large
- Maintenance method:
- Adjustment of loose screws in the disassembling and assembling head: pre-tighten (not too tight) the screws in



advance, and then tighten them. When installing the screws, install a medium-size tire, let the wheel of the tire removing head lean against the steel rim, turn the direction of the tire removing head to match the arc of the steel rim, and then tighten and fix it.

- If the hexagonal column swings too much, change the rocker.

8.6 Pawls cannot open or close:

Check whether there is leakage, or the five-way valve element runs out of the pedal shifting fork. If the above is normal, check whether the rotatory distributing valve is subject to blow-by. Remove the pipe connecting the rotary distributing valve to the small cylinder. If only one of the pipes connecting the rotary distributing valve to the small cylinder has air coming out when the pedal is not pressed down or completely pressed down, or the two air pipes do not emit air at the same time, the rotary distributing valve is subject to blow-by. If all the above parts are OK, check the clamping part: whether the pawl seat is deformed or stuck, whether the square turntable is stuck, or whether the square turntable pin falls off.

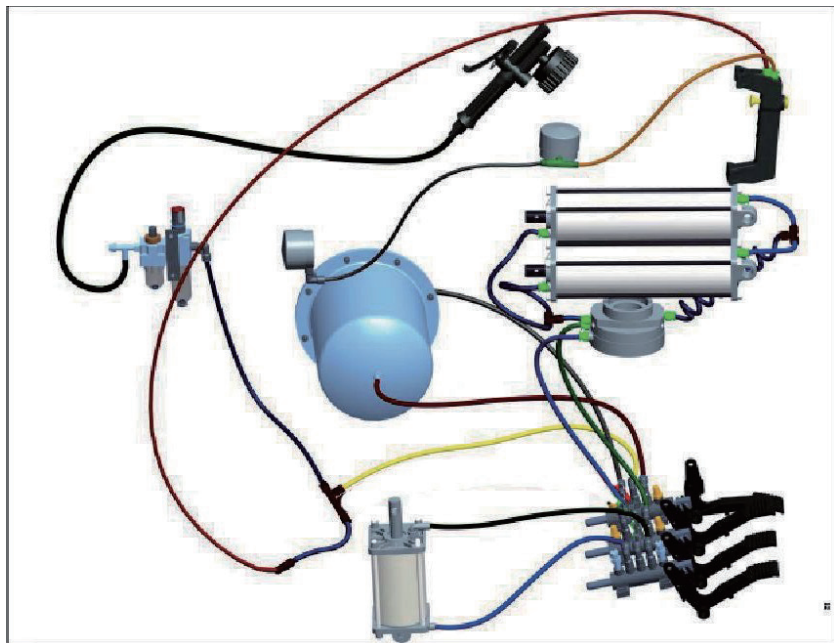
8.7 Common troubleshooting

Failures	Causes	Solutions
Tire disassembling and assembling head scraps the steel rim or bits the tire	The column loosens, leading to displacement of the disassembling and assembling head	Tighten the column
	The swing arm/slide arm loosens, leading to displacement of the disassembling and assembling head	Adjust the gap between the swing arm/slide arm
	The clearance of the hexagonal rod is large, leading to displacement of the disassembling and assembling head	Adjust the clearance of the hexagonal rod
	The disassembling and assembling head is loose	Tighten the disassembling and assembling head
	The plastic gasket of the disassembling and assembling head falls off	Install the plastic gasket
	Clearance between the disassembling and assembling head and rim is too small	Adjust the clearance between the disassembling and assembling head and rim by 2-4mm
Pawls don't hold the rim tightly	Leakage/blow-by of clamping cylinder	Check the air pipe connector/replace the sealing ring
	Leakage/blow-by of rotary distributing valve	Check the air pipe connector/replace the sealing ring
	Improper position/leakage/blow-by of five-way valve	Adjust the position of the five-way valve/replace the O-ring
	The air pressure of the oil atomizer is too low	Adjust the oil atomizer pressure/check the air source pressure
Large cylinder is poor	In-concentricity/damage of four claws	Adjust pawl distance and eccentric bearing bush/replace pawl
	Leakage/blow-by of large cylinder	Check the air pipe connector/replace the sealing ring
	Improper position/leakage/blow-by of five-way valve	Adjust the position of the five-way valve/replace the O-ring
	The air pressure of the oil atomizer is too low	Adjust the oil atomizer pressure/check the air source pressure
	The air intake of the cylinder is slow	Adjust the pedal limit screw of the five-way valve



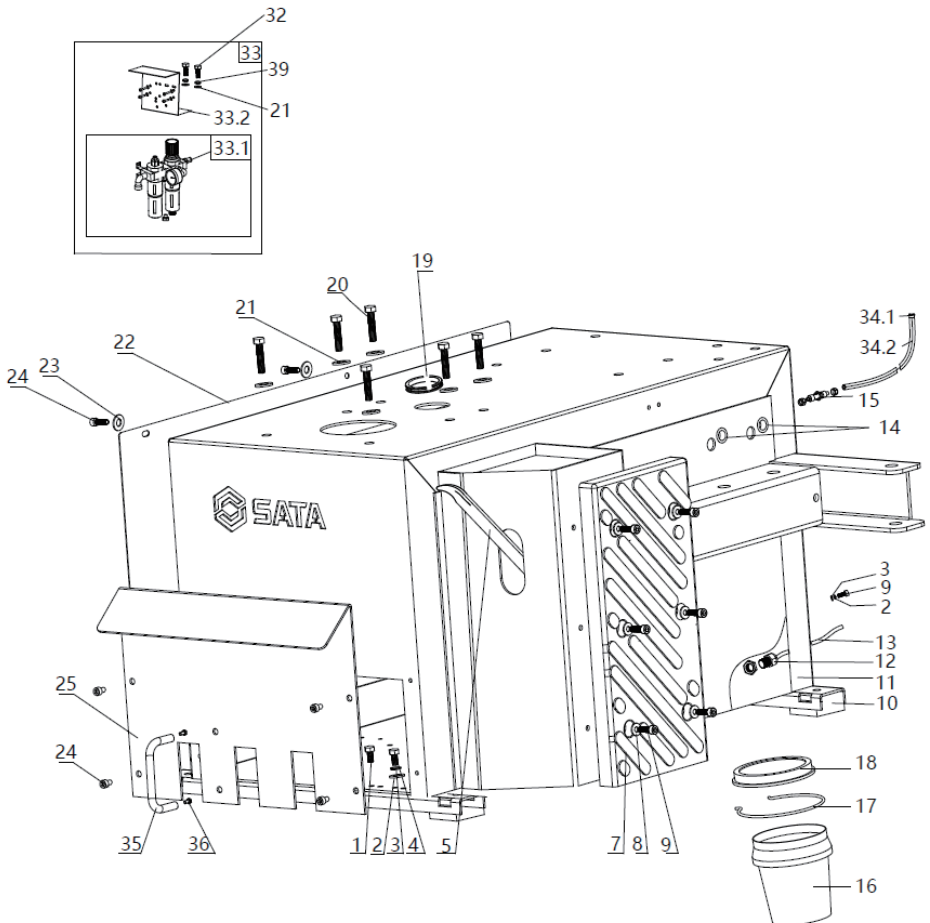
Motor is poor	The 220V motor starting capacitor is damaged	Replace the capacitance
	Phase loss of 380V power supply	Checking the power supply phase
	Belt is loose	Tighten the belt
Motor does not turn	The 220V motor starting capacitor is damaged	Replace the capacitance
	Phase loss of 380V power supply	Checking the power supply phase
	The switch is damaged or incorrectly connected	Check the connection to the switch or replace the switch
	No power or plug is not properly connected	Check the power supply/replace the plug
The hexagonal rod does not lock properly	Large clearance of locking plate	Adjust the clearance of the locking plate

Failures	Causes	Solutions
Large clearance of sliding arm	The upper and lower roller bearings and side jackscrew are not in the right position	Adjust the position
Cylinder blow-by	Piston seal ring is damaged/gas pipe joint is damaged	Replace it
Cylinder leakage	O-ring damage/piston rod scratch/gas pipe joint damage	Replace it
Five-way valve leakage	O-ring is damaged/air pipe joint is damaged	Replace it
Five-way valve blow-by	O-ring is damaged	Replace it
Oil atomizer leakage	O-ring damage/foreign bodies/gas pipe joint damage	Replace/clean up foreign bodies
The oil atomizer does not drip oil	Too small drops of oil/no oil	Increase the drops of oil/add oil
Leakage of rotary distributing valve	O-ring is damaged/air pipe joint is damaged	Replace it
Blow-by of rotary distributing valve	O-ring is damaged	Replace it
Pawls can open but cannot close/ jitter	Foreign body/no lubricating oil/deformation of pawl seat	Clean up foreign matter/add oil to lubricate/replace
Belt damage	Belt is too tight/pulley is not level with belt disc/overuse	Adjust position and levelness/replace it
The switch turns reversely	Wrong wiring	Reconnect/replace it
The gearbox is noisy	Loose screws/no lubricating oil/bearing damage	Lock screws/lubricate it/replace it



Chapter X Product explosive view

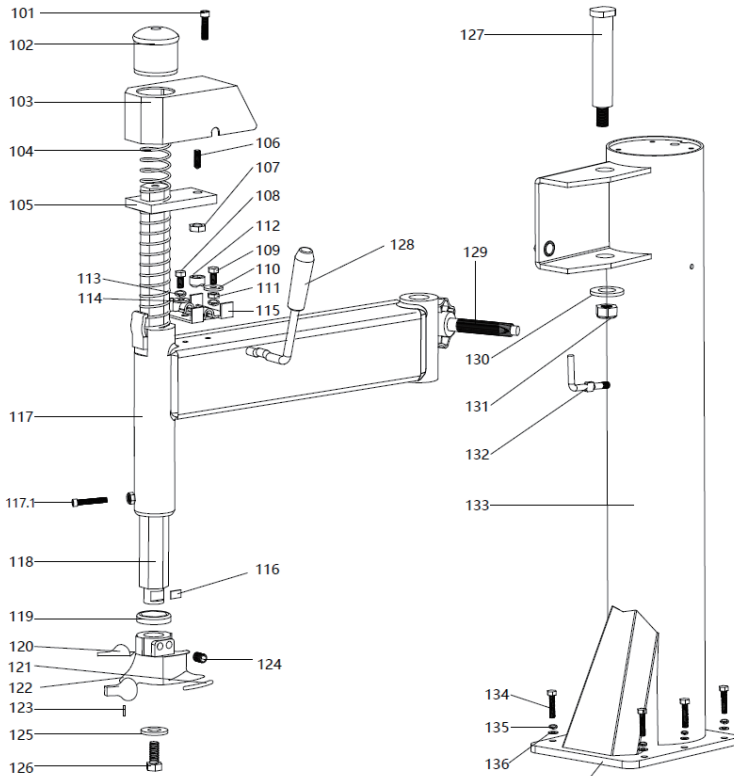
1、Cabinet body assembly::



Drawing No.	SATA No.	Specification/name	Quantity
1	PAE1021-108	Hexagon bolt M8*20	2
2	PAE1021-113	Elastic washers $\phi 8$	2
3	PAE1021-110	Flat washer $\phi 8$	2
4	PAE1024-01	Hexagon bolt M8*16	1
5	PAE1021-5	Pry Bar 20"	1
7	PAE1024-02	Rubber plates for pressed tires	1
8	PAE1021-114	Flat washer $\phi 8$	6
9	PAE1021-308	Allen cylindrical head bolt M8*20	9
10	PAE1021-10	Rubber feet	4
11	PAE1022-11	Chassis	1
12	PAE1021-12	Cable screw G13.5	1
13	PAE1021-13	Power cord with plug	1
14	PAE1021-14	Coil guard $\phi 16$	2
15	PAE1021-15	Quick screw separator through 2*8*5	1
16	PAE1021-16	Round oil drum	1
17	PAE1021-17	Oil cartridge rack	1
18	PAE1021-18	Round oil cartridge cap	1
19	PAE1021-19	Coil guard $\phi 45$	1
20	PAE1021-20	Hexagon bolt M10*160	8
21	PAE2021-209	Flat washer $\phi 10$	12
22	PAE1024-03	Left plate assembly	1
23	PAE2021-311	Flat washer $\phi 6$	2
24	PAE1021-24	Allen cylindrical head bolt M6*10	8
25	PAE1021-25	Front cover (swingarm)	1
32	PAE1021-127	Hexagon bolt M10*25	2
33	PAE1021-33	Lubricator assembly (with stand)	1
33.1	PAE1021-33A	Lubricator assembly	1
33.2	PAE1025-28	Lubricator bracket	1
34.1	PAE1021-34A	Fast female SP20-T	1
34.2	PAE1021-34B	Spring tube UC $\phi 8*5-5$	1
35	PAE1021-35	Round steel U-handle $\phi 10$	1
36	PAE2021-118	Cross-grooved semi-round head with pad screw M4*10	2
33.1	PAE1021-33A	油雾器总成 (不带支架)	1
33.2	PAE1025-28	油雾器支架	1
34.1	PAE1021-34A	快速母头 SP20-T	1
34.2	PAE1021-34B	弹簧管 UC $\phi 8*5-5$	1
35	PAE2021-405	内六角圆柱头螺栓 M6*16	2
36	PAE1021-127	外六角螺栓 M10*25	2

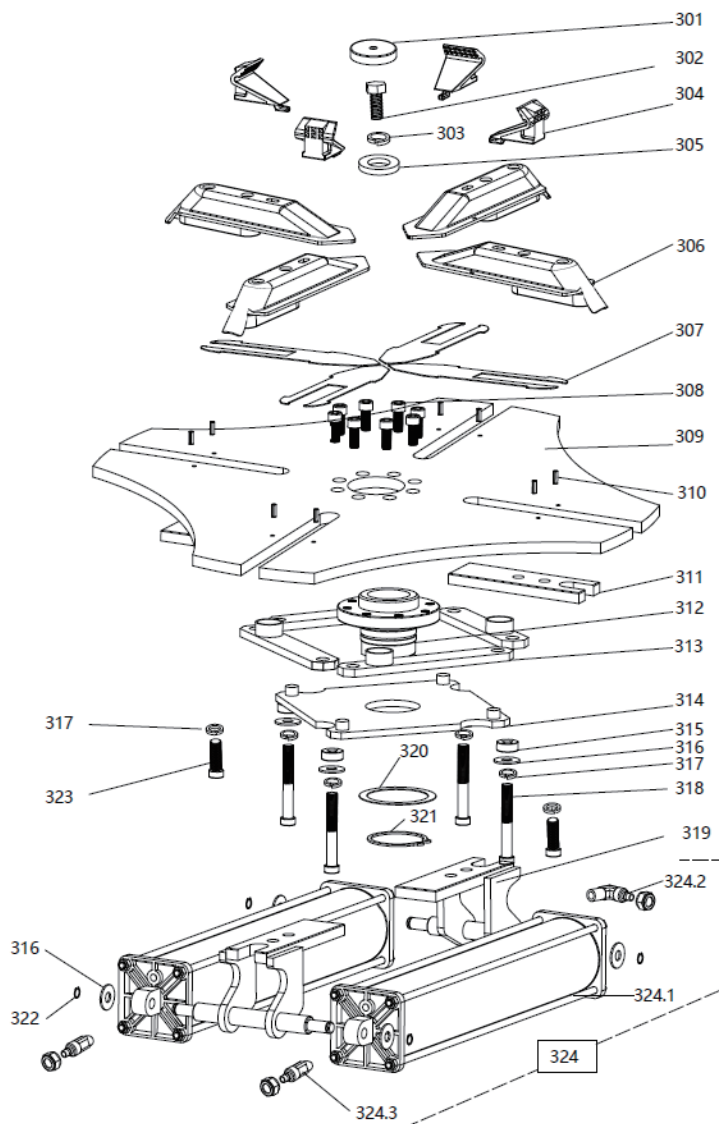


2、 Column Assembly:





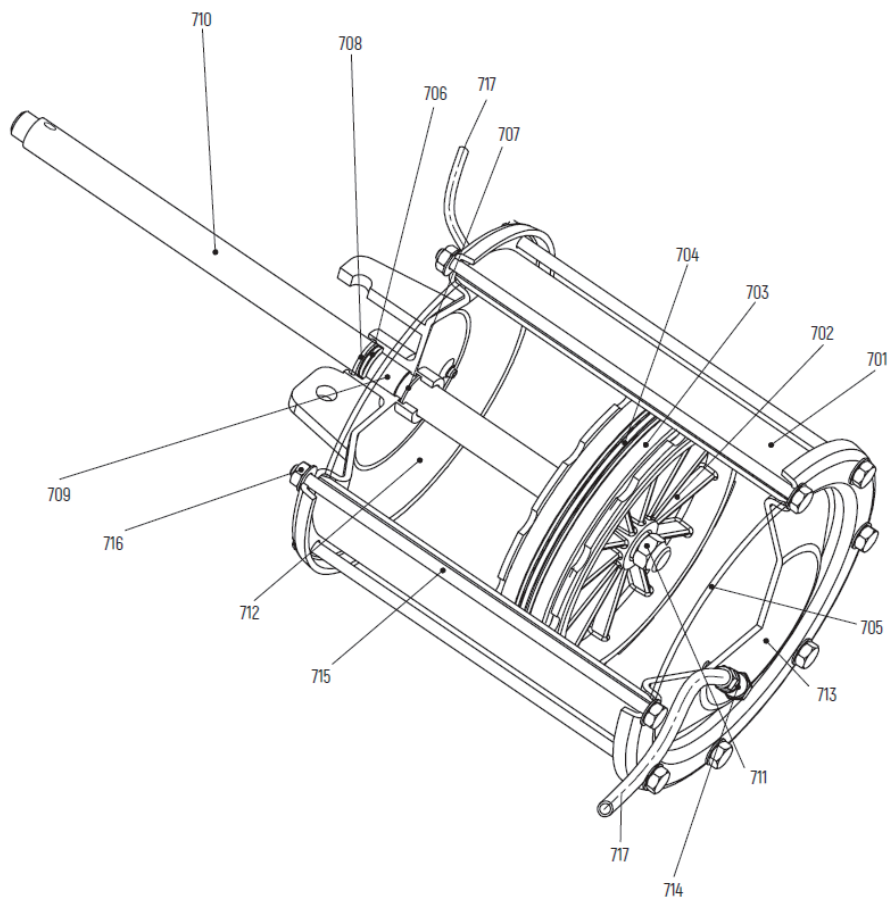
Drawing No.	SATA No.	Specification/name	Quantity
101	PAE1021-101	Allen M8*35	1
102	PAE1021-102	Hex pressure bar cap S40	1
103	PAE1021-103	Lock the seat cap	1
104	PAE1021-104	Pressure rod spring $\phi 3.5 \times 55 \times 500$	1
105	PAE1021-105	Locking plate 12*60	1
106	PAE1021-106	Lock the dowel pegs	1
107	PAE1021-107	Nut M12	1
108	PAE1021-108	Hexagon bolt M8*20	1
109	PAE1021-109	Hexagon bolt M8*25	1
110	PAE1021-110	Flat washer $\phi 8$	1
111	PAE2021-126	Nut M8	1
112	PAE1021-112	Eccentric bearings	1
113	PAE1021-113	Elastic washers $\phi 8$	2
114	PAE1021-114	Flat washer $\phi 8$	1
115	PAE1021-115	Lock handle holder	1
116	PAE1021-116	Hexagonal rod bird's head manganese steel pad	1
117	PAE1024-04	Rocker	1
117.1	PAE1021-118	Allen cylindrical head bolt M8 \times 40	1
118	PAE1021-119	Hex pressure rod	1
119	PAE1021-120	Anti-shock pad S40*50*10	1
120	PAE1021-121	Disassembly head filling pad - rear	1
121	PAE1021-122	Disassembly head filling pad - front	1
122	PAE1021-123	Disassembly head 3#	1
123	PAE1021-124	Cylindrical pin M5*24	1
124	PAE1021-125	Allen concave end screw M12*16	4
125	PAE1021-126	Disassembly head flat washer $\phi 10.5$	1
126	PAE1021-127	Hexagon bolt M10*25	1
127	PAE1024-05	Rocker pins	1
128	PAE1021-129	Lock the handle	1
129	PAE1021-130	Column adjustment handle	1
130	PAE1021-131	Large washer on the table	1
131	PAE1021-132	Self-locking nut M16	1
132	PAE1021-133	Column hooks	1
133	PAE1024-06	column	1
134	PAE1021-135	Hexagon bolt M10*60	6
135	PAE2021-208	Elastic washer $\phi 10$	8
136	PAE2021-209	Flat washer $\phi 10 \times 20 \times 2$	8

3、Workbench assembly:




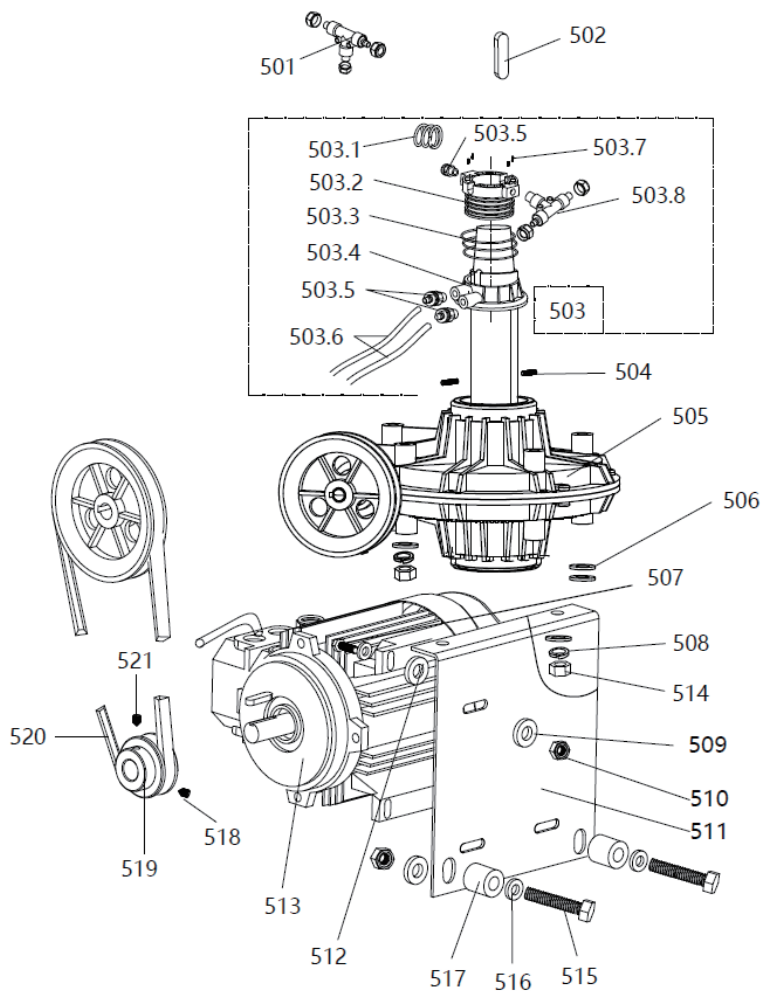
Drawing No.	SATA No.	Specification/name	Quantity
301	PAE1021-301	Work platform cover	1
302	PAE1021-302	Hexagon bolt M16*40	1
303	PAE1021-303	Elastic washer ϕ 16	1
304	PAE1021-304	Jaws	4
305	PAE1021-131	Large washer on the table	1
306	PAE1021-306	Jaw cap assembly	4
307	PAE1021-307	Guide sheets	4
308	PAE1021-308	Allen cylindrical head bolt M8*20	8
309	PAE1021-309	Workbench plate	1
310	PAE1021-310	Flexible pin 5*16	8
311	PAE1021-311	Underseat panel	4
312	PAE1021-312	Table cone sleeve	1
313	PAE1021-313	Pull bar assembly	4
314	PAE1021-314	Square turntable assembly	1
315	PAE1021-315	Tie rod pin sleeve	4
316	PAE1021-316	Flat washer ϕ 12*24*2	8
317	PAE1021-317	Elastic washer ϕ 12	8
318	PAE1021-318	Hexagon bolt 12*80	4
319	PAE1021-319	B-type jaw seat assembly	1
320	PAE1021-320	Square turntable gasket	1
321	PAE1021-321	Circlip (for shaft) ϕ 65	1
322	PAE1021-322	Circlips (for shafts) ϕ 12	4
323	PAE1021-323	Hexagon bolt M12*35	4
324	PAE1024-07	Clamping cylinder assembly 75*325	2
324.1	PAE1024-08	Cylinder 75*325	2
324.2	PAE1021-324B	Quick screw elbow 1/8- ϕ 8*5	2
324.3	PAE1021-324C	Quick screw through 1/8- ϕ 8*5	2

4、 Large cylinder assembly :



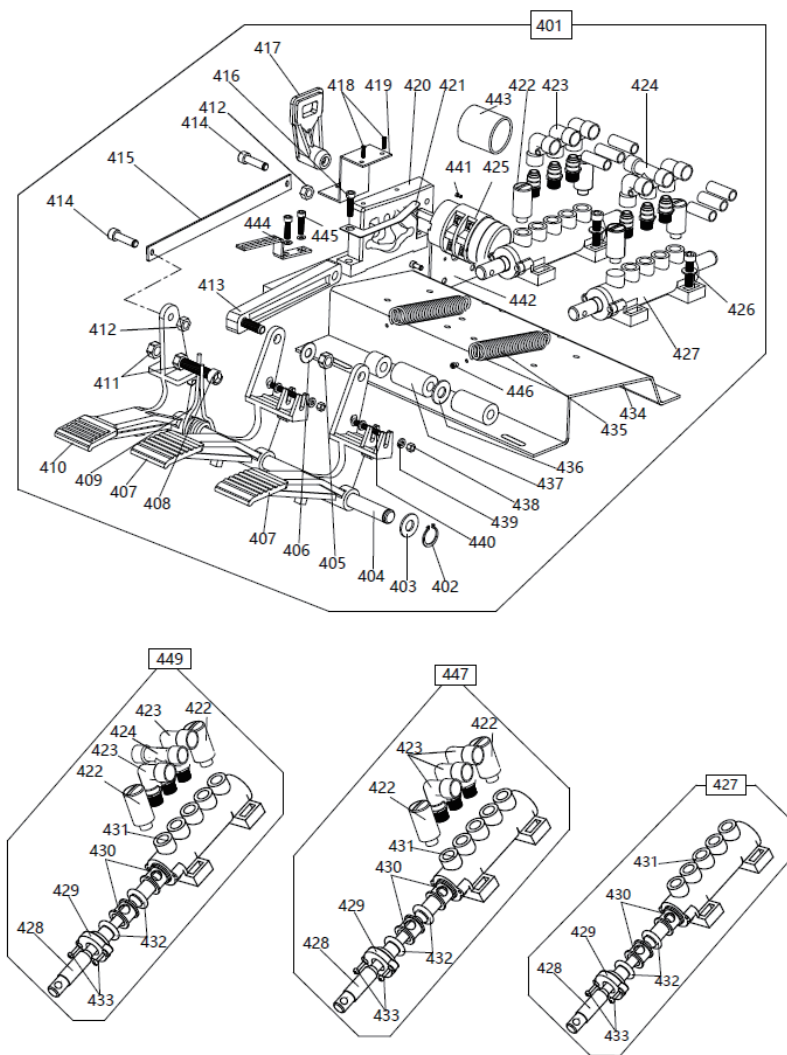


Drawing No.	SATA No.	Specification/name	Quantity
700	PAE1024-31	Atmospheric cylinder (assembly)	1
701	PAE1024-32	Atmospheric cylinder barrel 200	1
702	PAE1024-33	Piston 200	1
703	PAE1024-34	V-ring	2
704	PAE1024-35	Piston guide rings	1
705	PAE1024-36	O-ring $\phi 197 \times 2.65$	2
706	PAE1021-706	Skeleton wiper seal	1
707	PAE1021-707	Sealing ring $\phi 19 \times 2.65$	1
708	PAE1021-708	$\phi 30$ holes with circlips	1
709	PAE1021-709	Copper sleeve 20*23*20	1
710	PAE1021-710	Piston rod	1
711	PAE1021-711	Allen nut M18*1.5*9mm	1
712	PAE1024-37	Upper cylinder head	1
713	PAE1024-38	Lower cylinder head	1
714	PAE1021-423	Quick-insert elbow 1/8- $\phi 8 \times 5$	2
715	PAE1021-715	Hexagon bolt M8*230mm	8
716	PAE1021-716	Self-locking nut M8	8
717	PAE1024-42	Trachea $\phi 8 \times 900$ mm	2

5、Motor Part:




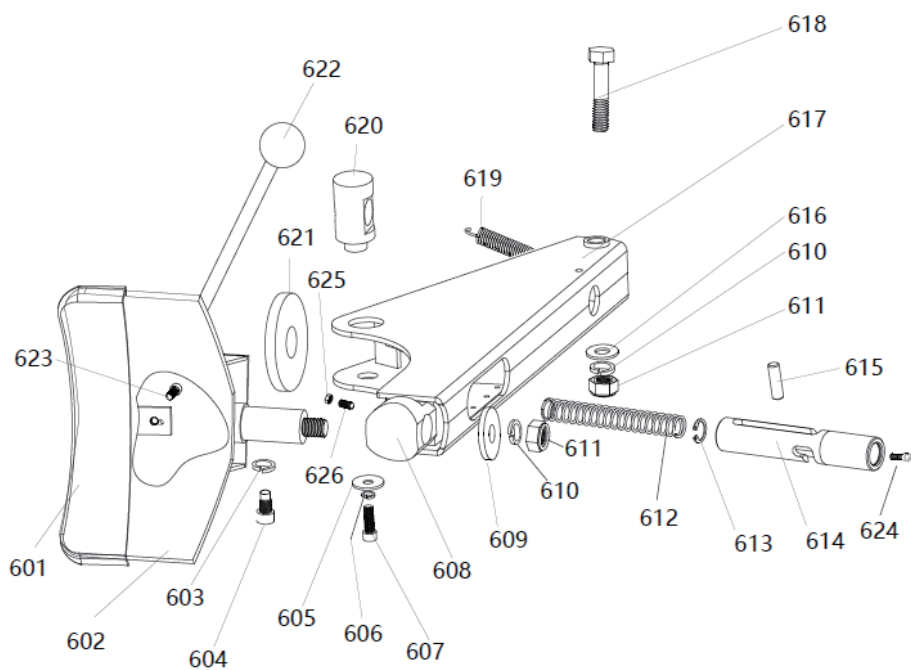
Drawing No.	SATA No.	Specification/name	Quantity
501	PAE1024-39	Quick screw tee 3* ϕ 8*5	1
502	PAE1024-40	A-type flat key 10*40	1
503	PAE1021-520	Rotary valve assembly	1
503.1	PAE1021-34B	Spring tube UC ϕ 8*5-5	1
503.2	PAE1024-12	Distributor spool	1
503.3	PAE1024-13	O-ring ϕ 61.5*3.55	3
503.4	PAE1024-14	Gas distribution valve sleeve	1
503.5	PAE1021-324C	Quick screw through 1/8- ϕ 8*5	3
503.6	PAE1024-15	Trachea ϕ 8*900	2
503.7	PAE1024-16	Allen concave end screw M4*6	4
503.8	PAE1024-17	Quick screw tee 1/8-2* ϕ 8*5	1
504	PAE1024-18	Allen concave end screw M10*35	2
505	PAE1024-19	Worm gear box assembly	1
506	PAE2021-209	Flat washer ϕ 10*20*2	8
507	PAE1024-20	Hexagon bolt M8*30	4
508	PAE2021-208	Elastic washer ϕ 10	6
509	PAE1021-110	Flat washer ϕ 8*24*2	6
510	PAE1021-716	Self-locking nut M8	4
511	PAE1024-21	Universal motor mount	1
512	PAE1024-22	Motor rubber pad ϕ 10*20*2	6
513	PAE1024-23	MOTOR 60HZ/110V/1.1KW	1
	PAE1024-24	Motor 50HZ/220V/1.1KW	
	PAE1024-25	Motor 50HZ/380V/0.75KW	
514	PAE1021-620	Nut (white) M10	6
515	PAE1024-26	Hexagon bolt M8*100	2
516	PAE1021-114	Flat washer ϕ 8*17	2
517	PAE1024-27	Anti-vibration adhesive pad	2
518	PAE1021-508A	Allen concave end screw M8*12	1
519	PAE1024-28	Motor pulleys	1
520	PAE1024-29	Vedge belt AV13*735	1
521	PAE1021-508A	Allen concave end screw M8*12	1

6、 Pedal assembly:


Drawing No.	SATA No.	Specification/name	Quantity
401	PAE1021-401	Three-legged assembly	1
402	PAE1021-322	Circlip $\phi 12$	2
403	PAE1021-403	Flat washer $\phi 12$	2
404	PAE1021-404	Axis $\phi 12 \times 282$	1
405	PAE1021-716	Self-locking nut M8	3
406	PAE1021-114	Flat washer $\phi 8 \times 17$	2



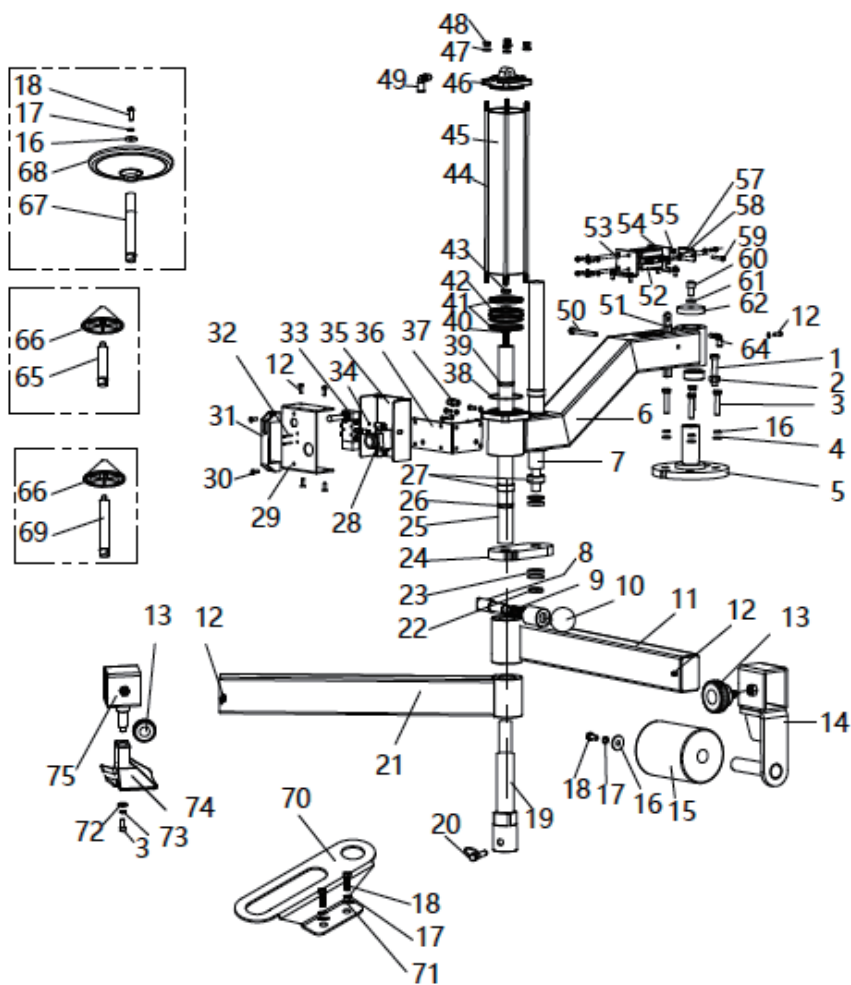
Drawing No.	SATA No.	Specification/name	Quantity
407	PAE1021-407	Big foot	2
408	PAE1021-509	Hexagon bolt M8*70	1
409	PAE1021-409	Foot pedal torsion spring $\phi 3.5 \times 20.4 \times 70$	1
410	PAE1021-410	Big foot	1
411	PAE2021-126	Nut M8	2
412	PAE1021-716	Self-locking nut M8	2
413	PAE1021-413	Cam linkage	2
414	PAE1021-414	Allen countersunk bolt M8*20	4
415	PAE1021-415	Switch bracket 2	1
416	PAE1021-416	Allen round head bolt M6*25	10
417	PAE1024-09	Inverted switch handle	1
418	PAE1021-418	Cross-groove semi-round head self-tapping screw 3*10	4
419	PAE1021-419	Cam cover	2
420	PAE1021-420	Cam body	1
421	PAE1021-421	Cam spring plates	1
422	PAE1021-422	Muffler 1/8	4
423	PAE1021-423	Push-in elbow 1/8- $\phi 8$	5
424	PAE1021-424	Quick plug tee 1/8-2" $\phi 8$	1
425	PAE1021-425	Transfer switch	1
426	PAE2021-311	Flat washer $\phi 6$	11
427	PAE1021-427	Five-way valve body assembly	2
428	PAE1021-428	5-way stem 12mm	2
429	PAE1021-429	5-way bonnet	2
430	PAE1021-430	5-way valve spacer sleeve	10
431	PAE1021-431	5-way valve body	2
432	PAE1021-432	O-ring 12*20*4	12
433	PAE1021-418	Cross-groove semi-round head self-tapping screw 3*10	6
434	PAE1021-434	Foot bracket group welding	1
435	PAE1021-435	Foot pedal pull spring	2
436	PAE1021-316	Flat washer $\phi 12 \times 24 \times 2$	9
437	PAE1021-437	Bushing 2	1
438	PAE1021-438	Self-locking nut M4	2
439	PAE1021-439	Phillips grub screw M4*35	2
440	PAE1021-440	Flat washer $\phi 4$	2
441	PAE2021-118	Cross-grooved semi-round head with pad screw M4*10	1
442	PAE1021-442	Switch bracket	1
443	PAE1021-443	Switch sleeve	1
444	PAE1021-444	Torsion spring limit bracket	1
445	PAE2021-405	Allen cylindrical head bolt M6*16	2
446	PAE1021-446	Allen round head bolt M5*10	1
447	PAE1024-10	5-way valve assembly	1
449	PAE1024-11	5-way valve assembly	1
449	PAE1024-11	五通阀总成	1

7. Shovel arm assembly:




Drawing No.	SATA No.	Specification/name	Quantity
601	PAE1023H-41	Tire shovel sheath	1
602	PAE1021-602	Tire shovel	1
603	PAE1021-603	Elastic washer $\phi 14$	2
604	PAE1021-604	Positioning nails	2
605	PAE1021-605	Flat washer $\phi 8 \times 30 \times 2$	1
606	PAE1021-113	Elastic washer $\phi 8$	1
607	PAE1021-108	Hexagon bolt M8*20	1
608	PAE1021-608	Tire blade hinge	1
609	PAE1021-131	Large washer on the table	1
610	PAE1021-303	Elastic washer $\phi 16$	2
611	PAE1021-132	Self-locking nut M16	2
612	PAE1021-612	Adjust the sleeve spring $\phi 1.5 \times 19.5 \times 125$	1
613	PAE1021-613	Holes with circlips $\phi 20$	1
614	PAE1021-614	Cylinder piston rod adjustment sleeve	1
615	PAE1021-615	Atmospheric cylinder piston rod pin shaft 10*33	1
616	PAE1021-616	Flat washer $\phi 16 \times 30 \times 2$	1
617	PAE1021-617	Shovel arm	1
618	PAE1021-618	Hexagon bolt M16*100	1
619	PAE1024-30	Shovel arm pull spring $\phi 2.5 \times 20 \times 70$	1
620	PAE1024-41	Cylinder tie rod sleeve	1
621	PAE1021-621	Shovel arm pad (thin)	1
622	PAE1021-622	Black ball handle M16*50	1
623	PAE1021-24	Allen cylindrical head bolt M6*10	1
624	PAE2021-405	Allen cylindrical head bolt M6*16	1
625	PAE1021-625	Nut M10 (thin)	1
626	PAE1021-626	Allen concave end set screw M10*20	1

8、 Right auxiliary arm:





Drawing No.	SATA No.	Specification/name	Quantity
1	PAE1024H-01	Allen cylindrical head bolt M10*45	1
2	PAE1024H-02	Nut M10	1
3	PAE1024H-03	Hexagon bolt M10*35	4
4	PAE1024H-04	Flat washer \varnothing 10	1
5	PAE1024H-05	Mounting seat group weldments	1
6	PAE1024H-30	Center swivel arm assembly weldment	1
7	PAE1021-H7	Guide rod	1
8	PAE1021-H8	Swivel arm dowel pin	1
9	PAE1021-H9	Spring \varnothing 1.2*18*30	1
10	PAE1021-H10	Black ball handle M6*25	1
11	PAE1021-H11	A set of weldments for the tire arm	1
12	PAE1021-24	Allen cylindrical head bolt M6*10	25
13	PAE1021-H13	Straight grain handle D50*M10*25	2
14	PAE1021-H14	Tire pressure slide assembly weldments	1
15	PAE1021-H15	90 pressure tire roll	1
16	PAE2021-211	Flat washer \varnothing 10*35*4	2
17	PAE2021-208	Spring washer \varnothing 10	4
18	PAE1021-127	Hex head bolt M10*25	4
19	PAE1021-H19	Center locking sleeve	1
20	PAE1021-H20	Safety pin	1
21	PAE1021-H21	Two sets of tire pressure arm welding	1
22	PAE1024H-06	Flat nut M20*1.5 thick 10	1
23	PAE1024H-07	Spherical washer \varnothing 20	2
24	PAE1024H-08	Lock plate	1
25	PAE1024H-09	80 cylinders \varnothing 35 optical shafts	1
26	PAE1024H-10	Dustproof sealing ring FC35*45*6.5*8.5	1
27	PAE1024H-11	Copper sleeve 35*39*15	3
28	PAE1024H-12	Mechanical valve MOV-04	1
29	PAE1024H-13	Hand push valve front cover	1
30	PAE1021-308	Allen cylindrical head bolt M8*20	2
31	PAE1021-H28	Shroud handle	1
32	PAE1024H-14	Phillips groove countersunk screw M4*30	2
33	PAE1021-H27	Hand push valve assembly	1
34	PAE1021-438	Self-locking nut M4	2



Drawing No.	SATA No.	Specification/name	Quantity
35	PAE1024H-15	Hand push valve back cover	1
36	PAE1024H-16	Hand push valve rear bracket	2
37	PAE1022-113	Push-in straight through 1/8- Ø 6	1
38	PAE1024H-17	O-ring Ø 75* Ø 2.65	2
39	PAE1024H-18	Sealing ring UN35*45*6	1
40	PAE1024H-19	O-ring seal Ø 11.8* Ø 1.8	1
41	PAE1024H-20	Y-ring YC80	2
42	PAE1024H-21	80-cylinder piston	1
43	PAE1021-107	Nut M12	1
44	PAE1024H-22	Cylinder tie rod stud 420	4
45	PAE1024H-23	Cylinder barrel 80*387	1
46	PAE1024H-24	Monaural 80-cylinder rear cover	1
47	PAE1021-114	Flat washer Ø 8	1
48	PAE1021-716	Self-locking nut M8	1
49	PAE1021-H34	Push-in elbow 3/8- Ø 6	6
50	PAE1024H-25	Outer hexagon screw M8*80	1
51	PAE1024H-26	Bolt	1
52	PAE1024H-27	Cylinder SSA32*20 assembly	1
53	PAE1024H-28	Small cylinder rear bracket	1
54	PAE1024H-29	Small cylinder front bracket	1
55	PAE1022-H14	Self-locking nut M6	1
57	PAE1024H-31	Small cylinder lugs	1
58	PAE1024H-32	Allen cylindrical head bolt M6*45	1
59	PAE1024H-33	Allen cylindrical head bolt M6*35	1
60	PAE1024H-34	Allen cylindrical head bolt M12*35	1
61	PAE1021-317	Elastic washers Ø 12	1
62	PAE1024H-35	Large gasket 12	1
64	PAE1024H-37	Quick-plug bend through 6-6	1
65	PAE1021-H39	The center positioning rod is short	1
66	PAE1021-H40	Center positioning cone	2
67	PAE1021-H41	Bracket placenta mounting rod	1
68	PAE1021-H42	Placenta	1
69	PAE1021-H43	The center positioning rod is long	1



Drawing No.	SATA No.	Specification/name	Quantity
70	PAE1021-H44	Center shaft placement stand	1
71	PAE2021-209	Flat washer Ø 10	2
72	PAE1021-110	Flat washer Ø 8	2
73	PAE1021-113	Elastic washers Ø 8	1
74	PAE1021-H49	Tire press	1
75	PAE1021-H50	Tire pressure slide set weldment 2	1

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